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# DETAILED — SURFACE WATER QUALITY DATA

## British Columbia 1979 – 1981

C. THORP
MARCH 1985

Inland Waters Directorate
Pacific and Yukon Region
Vancouver, B.C.

# DETAILED SURFACE

# WATER QUALITY DATA

BRITISH COLUMBIA

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CONTENTS


| | Page |
|---|---|
| ABSTRACT | v |
| INTRODUCTION | vii |
| GUIDE TO USE OF TABLES | viii |
| HYDROMETRIC DATA | ix |
| CODING OF ANALYTICAL METHODS | ix |
| DEFINITION OF TERMS AND SYMBOLS | x |
| ADDITIONAL INFORMATION | xi |
| DETAILED DATA | 1 |
| ALPHABETICAL INDEX of stations | 57 |
| STATION LOCATION MAP | 59 |

## ABSTRACT

Chemical and physical surface water data for British Columbia collected during the period 1979 to 1981 are detailed herein. These data are intended to provide a ready reference to water quality variables.



## RESUME

Les données chimiques et physiques sur les eaux de surface de la Colombie-Britannique recueillies de 1979 à 1981 sont présentées de façon à permettre la consultation rapide des variables de la qualité de l'eau.

## INTRODUCTION

A series of studies of the chemical quality of surface waters in British Columbia was started in 1949 by the Industrial Water Resources of Canada, Technical Surveys. The results obtained during the period 1949 - 53 were published as Industrial Water Resources of Canada, Water Survey Reports Nos. 4, 5, 6, and 8. In 1960, a five-year study of the chemical quality of surface waters in Western Canada was initiated. This survey was incorporated in 1965 in the International Hydrologic Decade (IHD) program set up under the auspices of the United Nations.

The water quality aspects of the Canadian IHD program involve the determination of seasonal variations in quality, the study of relationships between water quality and natural factors such as climate, geology, soils, precipitation and discharge, and planning for the most effective use of water in the light of different quality requirements.

In 1967, the IHD program was extended to include a study of minor elements, toxic metals, nutrients and biocides. This survey is presently known as the National Water Quality Monitoring Program.

The water quality data presented herein were obtained in the laboratory of the Water Quality Branch, Pacific and Yukon Region, from the National Water Quality Monitoring Program in the province of British Columbia for the period July 17, 1979 to December 31, 1981. It does not include data collected during special studies nor surveys. Special studies or surveys are usually of short duration with specific objectives such as determining the source, the pathways, or the distribution of a pollutant in the aquatic environment. Long-term monitoring may be defined as the systematic collection of samples at strategic locations to provide an overview of the water quality in the aquatic system. This information supports work for assessing trends in the aquatic environment, establishing water quality objectives and assessing the impacts of development.

The monitoring program was reinstated in British Columbia during 1979 to comply with federal responsibilities. The sampling procedures at that time were those which had been used for earlier data collections and were also being used by similar federal programs in other provinces. This procedure utilized a two litre bottle in a cast iron frame but limited the number of variables analyzed as generally only one bottle was collected without preservation at each station per trip. The need to obtain nutrient data in replicate and information on heavy metals which require preservation was recognized. Where heavy metal results are reported, sampling procedures were modified. An exception is the Salmon River near Hyder, Alaska (00AK08DC0001) where sampling initially included extra bottles for cyanide and metal analyses. A Multiple Sampler (Sampling for Water Quality, Fig. 4, p8. Environment Canada publication 1983, ISBN 0-662-12380-8) was designed for the program to provide a mechanism for obtaining

data for variables which require replication or preservation. This sampler was not, however used for water collections on the Salmon River, Pend D'Oreille River at Waneta nor the Fraser River at Hope. The multiple sampler was utilized when samples were collected for mercury analyses. Replicate samples for analyses of nutrients, phosphorus and nitrogen, were also collected when mercury was sampled (and reported). At these times three replicates for each were analyzed and the mean calculated and recorded for each variable.

This report is the second of a series of detailed water quality data reports: the first publication covering the period 1961 - 1971. It is the product of a joint program of the Water Resources Branch and the Water Quality Branch. The efforts of the Water Resources Branch for the majority of sample collections and for the provision of hydrometric data is much appreciated. The data contained in this report are stored on the NAQUADAT computerized storage and retrieval system. A magnetic tape of retrieved data was processed by computerized photo-composition with a lasar printing technique to produce the copy from which the tables were printed. The assistance of personnel in the Data and Instrumentation Section, Water Quality Branch, Ottawa, in preparing this report is gratefully acknowledged.

## GUIDE TO USE OF TABLES

Data in this report are arranged in order of the 12-digit code assigned to each station (NAQUADAT station number). This code incorporates the Water Survey of Canada basin and subbasin designation. In the station number, the first two numerals refer to the water type (00 designates a stream, 01 a lake or reservoir) and they are followed by a two-letter provincial code (BC for British Columbia). The next two numerals and two letters refer to the basin and sub-basin respectively, followed by a four-digit sequence number. An alphabetical station index and a station location map are presented at the end of this report. Geographical coordinates of the sampling sites are also provided in the index.

## HYDROMETRIC DATA

A summary of hydrometric data has been included where available to provide some coherence between variable concentrations and the discharge regime. This information follows the analytical results for each station and includes mean daily, annual mean, minimum and maximim discharge data. The mean daily discharge is included for each day of sampling followed by the annual mean listed on December 31st for each year. The maximum and minimum daily discharges for each station per year are listed on the days for which they occur.

A complete listing of discharge information is available in the annual publication Surface Water Data, British Columbia as prepared by the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa. The basic hydrometric data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch, Vancouver, British Columbia.

## CODING OF ANALYTICAL METHODS

The analytical method employed is defined by the six-digit code number shown at the top of each column of data. If the analytical method used for a particular datum was different from the one indicated in the column heading, then the last three digits of the appropriate method code appear as backup codes beside the actual result. The variable code number is of the form ZZXYYA where:

1. ZZ is a numeric code designating the type of test as shown in the table following:

| TESTS | VARIABLE CODE |
|---|---|
| Chemical tests | ATXYYA (AT-Atomic Number) |
| Balances and other calculated variables | 00XYYA |
| General physical tests | 02XYYA |
| General chemical tests | 10XYYA |
| Other information | 97XYYA, 98XYYA and 99XYYA |

2. X is a one-digit numerical code (0-9) subdividing group (1).

3. YY is a two-digit sequential numerical code identifying the

analytical method used for the test. In certain cases this field is used to further subdivide the type of tests described in (1) and (2).

4. A is a one-digit alphabetical code indicating the place where the analysis was carried out and whether or not the sample was preserved at the time of sampling. S represents an in situ analysis; F, a field laboratory analysis; L, a laboratory analysis without any on-site preservation; and P, a laboratory analysis with on-site preservation of the sample.

In some cases values within the same column have different numbers of significant figures. This may occur when two or more analytical methods have been used to measure a particular variable and generally reflects the increased precision of the newer method.

A complete description of all the variable code numbers is given in the NAQUADAT Dictionary.

## DEFINITION OF TERMS AND SYMBOLS

| | |
|---|---|
| GEMS | Global Environmental Monitoring Study |
| JTU's | Jackson turbidity units |
| L | less than |
| Lat. | latitude in degrees, minutes and seconds |
| Long. | longitude in degrees, minutes and seconds |
| MG/L | milligrams per litre |
| NAQUADAT | National Water Quality Data Storage and Retrieval System |
| Q | signifies that at least one of the values used in the computation of this result was reported as less than the detection limit. In the computation of calculated parameters analytical values reported as "less than the detection limit" are interpreted as being equal to the numeric value of the detection limit. For example, when computing total nitrogen, given a total dissolved nitrogen value of less than 0.1 milligrams |

per litre (L 0.1 MG/L) and a nitrate plus nitrite (NO3 + NO2) value of 0.07 MG/L, the numeric values would be simply added to give a total nitrogen Q.17 MG/L.

NO./100 ML number per 100 millilitres

REL. UNITS relative colour units

SUBM ID submitter identification number. This identifies the sample collector and the project under which the data was collected.

UG/L Micrograms per litre

USIE/CM Microsiemens per centimetre

## ADDITIONAL INFORMATION

Additional information on these data or requests for data not inluded in this publication may be obtained from:

Coordinator
Water Quality Monitoring
Water Quality Branch
Environment Canada
502-1001 West Pender Street
Vancouver, B.C. V6E 2M9

Phone (604) 666-6038

Questions specifically relating to analytical methodologies should be directed to:

Head Analytical Services Division
Water Quality Branch
502-1001 West Pender Street
Vancouver, B.C. V6E 2M9

Phone (604) 987-7756

# Detailed Data

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08AK08BC0001 LAT. 56D 1M 18S LONG. 130D 4M 17S
SALMON RIVER NEAR HYDER, ALASKA ABOVE CONFLUENCE WITH TEXAS CREEK 333.5 KM BELOW BC-ALASKA BOUNDARY

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-15 | 1700 | 330 | 15.0 | 4.0 | 21.7 | -- | 7.3 | -- | 63. | 64.00 |
| 81-06-22 | 1345 | 330 | 15.0 | 4.0 | 18.5 | -- | 8.0 | -- | 65. | 42.00 |
| 81-07-01 | 1400 | 330 | 20.0 | 4.0 | 19.2 | -- | 7.4 | -- | 61. | 40.00 |
| 81-07-07 | 1715 | 330 | 19.0 | 5.0 | 19.2 | -- | 7.4 | -- | 67. | 12.00 |
| 81-07-15 | 1715 | 330 | 22.0 | 7.0 | 19.4 | -- | 7.5 | -- | 54. | 96.00 |
| 81-10-06 | 1845 | 330 | 7.2 | -- | 19.5 | -- | 7.4 | -- | 83. | 15.00 |
| 81-12-09 | 1700 | 330 | 5.0 | 3.0 | 21.2 | -- | 7.9 | -- | 147. | 48 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD ) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-15 | 1700 | 330 | 10 | .0 | 20.0 | 27.3 | 9.9 | 7 | 5 | .6 |
| 81-06-22 | 1345 | 330 | 5 | .0 | 20.7 | 28.8 | 9.8 | 1.1 | 4 | .4 |
| 81-07-01 | 1400 | 330 | 10 | .0 | 20.0 | 29.6 | 9.5 | 1.4 | .3 | .6 |
| 81-07-07 | 1715 | 330 | 10 | 0 | 18.8 | 28.4 | 9.3 | 1.3 | .3 | .5 |
| 81-07-15 | 1715 | 330 | 10 | 0 | 18.8 | 24.4 | 8.8 | .6 | .3 | .6 |
| 81-10-06 | 1845 | 330 | 10 | 0 | 24.8 | 39.7 | 12.6 | 2.0 | .7 | .5 |
| 81-12-09 | 1700 | 330 | L5 | 0 | 42.5 | 68.5 | 23.6 | 2.3 | .6 | .7 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 05001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-15 | 1700 | 330 | .3 | .030 | 1.4 | 7.5 | .014 | -- | -- | -- |
| 81-06-22 | 1345 | 330 | .3 | .030 | 1.8 | 7.8 | .002 | -- | -- | -- |
| 81-07-01 | 1400 | 330 | .2 | .030 | 1.6 | 7.1 | .003 | -- | -- | -- |
| 81-07-07 | 1715 | 330 | .2 | .020 | 1.7 | 7.2 | .029 | -- | -- | -- |
| 81-07-15 | 1715 | 330 | .4 | .020 | 1.4 | 5.0 | .015 | -- | -- | -- |
| 81-10-06 | 1845 | 330 | .3 | .030 | 1.8 | 11.3 | L.002 | -- | -- | -- |
| 81-12-09 | 1700 | 330 | .2 | .500 | 2.6 | 24.5 | .064 | -- | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06605P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-15 | 1700 | 330 | L.00050 | 110. | 41. | 110. | 41. | -- | .006 | -- |
| 81-06-22 | 1345 | 330 | .00100 | 77. | 62. | 74. | 44. | -- | .008 | -- |
| 81-07-01 | 1400 | 330 | .00080 | 98. | 55. | 96. | 44. | -- | .011 | -- |
| 81-07-07 | 1715 | 330 | .00080 | 30. | 59. | 30. | 43. | -- | .006 | -- |
| 81-07-15 | 1715 | 330 | .00100 | 340. | 41. | 330. | 24. | -- | .017 | -- |
| 81-10-06 | 1845 | 330 | -- | L10. | 61. | L10. | 59. | -- | -- | -- |
| 81-12-09 | 1700 | 330 | .00430 | L10. | 108. | L10. | 88. | -- | .001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-15 | 1700 | 330 | .0030 | .0005 | -- | .080 | -- | .350 | 2.10 | -- |
| 81-06-22 | 1345 | 330 | .0020 | .0005 | -- | .080 | -- | .012 | 2.40 | -- |
| 81-07-01 | 1400 | 330 | .0022 | .0005 | -- | .110 | -- | .015 | 2.50 | -- |
| 81-07-07 | 1715 | 330 | .0024 | .0005 | -- | .070 | -- | .010 | 2.00 | -- |
| 81-07-15 | 1715 | 330 | .0080 | .0005 | -- | .170 | -- | .022 | 4.20 | -- |
| 81-10-06 | 1845 | 330 | .0056 | .0008 | -- | -- | -- | -- | -- | -- |
| 81-12-09 | 1700 | 330 | .0011 | .0008 | -- | L.010 | -- | .018 | .11 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08AK08BC0001 LAT. 56C 1M 18S LONG. 130D 4M 17S
SALMON RIVER NEAR HYDER, ALASKA ABOVE CONFLUENCE WITH TEXAS CREEK 333.5 KM BELOW BC-ALASKA BOUNDARY

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 81-06-15 | 1700 | 330 | -- | L.001 | -- | -- | -- | -- |
| 81-06-22 | 1345 | 330 | .0005 | .004 | -- | -- | -- | -- |
| 81-07-01 | 1400 | 330 | L.0005 | .005 | -- | -- | -- | -- |
| 81-07-07 | 1715 | 330 | L.0005 | .003 | -- | -- | -- | -- |
| 81-07-15 | 1715 | 330 | L.0005 | .130 | -- | -- | -- | -- |
| 81-12-09 | 1700 | 330 | .0005 | .001 | -- | -- | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08CF0002 LAT. 56D 49M 45S LONG 131D 45M 50S
STIKINE RIVER ABOVE CHOQUETTE RIVER, 8.5 KM UPSTREAM OF CONFLUENCE WITH ISKUT RIVER
BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-05 | 1030 | 330 | .0 | 9.0 | 16.3 | 8.2 | 7.7 | 110 | 108. | 120.00 |
| 81-10-12 | 1525 | 330 | 7.5 | 5.0 | 18.8 | -- | 7.5 | 160 | 160 | 80.00 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-05 | 1030 | 330 | 15. | .0 | 44.1 | 51.9 | 16.5 | 2.6 | 1.0 | 1.8 |
| 81-10-12 | 1525 | 330 | 5. | .0 | 68.9 | 79.4 | 22.0 | 5.9 | 9 | 3.4 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-05 | 1030 | 330 | .7 | 040 | 5.3 | 6.6 | 039 | 138 | 10.7 | 5.3 |
| 81-10-12 | 1525 | 330 | .8 | .060 | 6.1 | 13.8 | 045 | .273 | 18.0 | L 9 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80211P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-05 | 1030 | 330 | -- | 320. | 61. | 300 | 51 | L.05 | 023 | -- |
| 81-10-12 | 1525 | 330 | .00000 | 160. | 95. | 140. | 75. | L.05 | 013 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 81-06-05 | 1030 | 330 | .0018 | .0002 | -- | .220 | -- | 023 | 10.00 | -- |
| 81-10-12 | 1525 | 330 | .0015 | .0003 | -- | .110 | -- | 002 | 5.30 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97.67S DISCHARGE DAILY MEAN M3/S | 97[illegible]S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 81-04-17 | 1200 | 330 | -- | -- | -- | -- | -- | 110.00 |
| 81-05-28 | 1200 | 330 | -- | -- | -- | -- | 3930.00 | -- |
| 81-06-05 | 1030 | 330 | L.0005 | .001 | 2500.00 | -- | -- | -- |
| 81-10-12 | 1525 | 330 | L.0005 | .005 | 395.00 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 787.00 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08CG0001
ISKUT RIVER BELOW JOHNSON RIVER ABOUT 8 KM FROM MOUTH, BRITISH COLUMBIA

LAT. 56D 44M 20S LONG. 131D 40M 23S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-06-01 | 1720 | 330 | -- | 8.0 | 23.9 | -- | 8.0 | -- | 135. | 83.00 |
| 81-06-05 | 1150 | 330 | .0 | 8.0 | 16.5 | 8.2 | 7.7 | 130 | 132. | 104.00 |
| 81-07-21 | 1545 | 330 | .0 | 10.0 | 19.9 | 8.2 | 7.9 | 110. | 115. | 180.00 |
| 81-10-12 | 1348 | 330 | 6.5 | 5.0 | 18.6 | -- | 7.9 | 200 | 194. | 7.30 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-06-01 | 1720 | 330 | 120. | .0 | 52.6 | 63.8 | 20.6 | 3.0 | 1.1 | 2.2 |
| 81-06-05 | 1150 | 330 | 10. | .0 | 48.4 | 60.1 | 19.7 | 2.8 | 1.1 | 2.2 |
| 81-07-21 | 1545 | 330 | 10. | .0 | 44.8 | 57.2 | 18.4 | 2.7 | 1.1 | 1.2 |
| 81-10-12 | 1348 | 330 | 10. | .0 | 70.5 | 91.3 | 26.7 | 6.0 | .9 | 3.6 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-06-01 | 1720 | 330 | 1.0 | .050 | 4.8 | 15.8 | .073 | -- | -- | -- |
| 81-06-05 | 1150 | 330 | .8 | .050 | 4.2 | 15.0 | .040 | 072 | 11.5 | 2.6 |
| 81-07-21 | 1545 | 330 | .7 | .040 | 3.1 | 11.0 | .021 | .065 | 11.4 | 1.9 |
| 81-10-12 | 1348 | 330 | .9 | .060 | 5.6 | 24.0 | 054 | .091 | 18.0 | L1.0 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-06-01 | 1720 | 330 | -- | 140. | 91. | 130. | 74. | -- | -- | -- |
| 81-06-05 | 1150 | 330 | -- | 190. | 83. | 180. | 69. | L.05 | .015 | -- |
| 81-07-21 | 1545 | 330 | -- | 700. | 83. | 670. | 64. | L.01 | 026 | -- |
| 81-10-12 | 1348 | 330 | -- | L10. | 110. | L10. | 92 | .05 | .005 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-06-01 | 1720 | 330 | .0011 | .0003 | -- | -- | -- | -- | -- | -- |
| 81-06-05 | 1150 | 330 | .0016 | .0003 | -- | .160 | -- | .022 | 7.80 | -- |
| 81-07-21 | 1545 | 330 | .0048 | .0004 | -- | .380 | -- | 019 | 11.00 | -- |
| 81-10-12 | 1348 | 330 | .0004 | .0004 | -- | .030 | -- | L.001 | .88 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 80-03-06 | 1200 | 330 | -- | -- | -- | -- | -- | 36.00 |
| 80-06-01 | 1720 | 330 | -- | -- | 778.00 | -- | -- | -- |
| 80-10-06 | 1200 | 330 | -- | -- | -- | -- | 2990.00 | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 507.00 | -- | -- |
| 81-03-08 | 1200 | 330 | -- | -- | -- | -- | -- | 73.60 |
| 81-06-05 | 1150 | 330 | L.0005 | .003 | 926.00 | -- | -- | -- |
| 81-07-21 | 1545 | 330 | L.0005 | .004 | 1340.00 | -- | -- | -- |
| 81-09-09 | 1200 | 330 | -- | -- | -- | -- | 3240.00 | -- |
| 81-10-12 | 1348 | 330 | L.0005 | L.001 | 236.00 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 546.00 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08MC008MF0001
FRASER RIVER AT HWY 1 BRIDGE. HOPE, BRITISH COLUMBIA LAT. 49D 23M 12S LONG. 121D 26M 58S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C | 02061L TEMP. WATER DEG. C | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1330 | 330 | -- | 17.5 | 20.5 | -- | 8.0 | -- | 102 | 48.00 |
| 79-10-10 | 1030 | 330 | -- | 12.5 | 21.0 | -- | 7.5 | -- | 128 | 6.50 |
| 79-10-31 | 1130 | 330 | -- | 9.0 | 20.6 | -- | 7.8 | -- | 132 | 3.30 |
| 79-11-20 | 1305 | 330 | -- | 4.5 | 18.4 | -- | 7.8 | -- | 150 | 3.90 |
| 79-12-20 | 1300 | 330 | -- | 4.0 | 18.6 | -- | 7.7 | -- | 88 | 56.00 |
| 80-02-08 | 1414 | 330 | 10.4 | 1.7 | 19.5 | -- | 7.8 | -- | 160 | 3.00 |
| 80-03-03 | 1410 | 330 | 15.0 | 3.8 | 19.9 | -- | 8.0 | -- | 145 | 7.00 |
| 80-03-26 | 1320 | 330 | 8.6 | 4.0 | 21.9 | -- | 8.0 | -- | 159 | 5.90 |
| 80-04-23 | 1413 | 330 | 15.7 | 6.3 | 22.2 | -- | 7.7 | -- | 111 | 60.00 |
| 80-05-27 | 1340 | 330 | 15.0 | 5.0 | 23.6 | -- | 7.8 | -- | 103 | 13.00 |
| 80-06-05 | 1414 | 330 | 14.8 | 11.0 | 23.7 | -- | 7.8 | -- | 104 | 23.00 |
| 80-06-17 | 1431 | 330 | 17.0 | 15.0 | 21.0 | -- | 7.8 | -- | 97 | 49.00 |
| 80-07-02 | 1625 | 330 | 20.0 | 15.3 | 21.3 | -- | 7.8 | -- | 105 | 42.00 |
| 80-07-28 | 1255 | 330 | 23.5 | 18.5 | 24.3 | -- | 7.9 | -- | 116 | 23.00 |
| 80-09-16 | 1305 | 330 | 23.0 | 14.2 | 21.4 | -- | 7.9 | -- | 125 | 5.00 |
| 80-10-29 | 0822 | 330 | 6.8 | 7.5 | 19.5 | -- | 7.8 | -- | 131 | 4.00 |
| 81-01-02 | 1224 | 330 | 7.0 | 2.5 | 21.4 | -- | 7.8 | -- | 120 | 6.00 |
| 81-01-21 | 1338 | 330 | 9.0 | 2.8 | 19.7 | -- | 7.2 | -- | 135 | 1.10 |
| 81-03-12 | 1311 | 330 | 19.0 | 6.5 | 19.3 | -- | 7.2 | -- | 143 | 4.00 |
| 81-03-31 | 1101 | 330 | 5.0 | 6.0 | 19.7 | -- | 8.0 | -- | 149 | 45 |
| 81-05-05 | 1054 | 330 | 10.5 | 8.0 | 20.6 | -- | 7.9 | -- | 122 | 56.00 |
| 81-06-25 | 1123 | 330 | 22.5 | 14.5 | 20.8 | -- | 7.7 | -- | 107 | 17.00 |
| 81-08-13 | 1145 | 330 | 24.0 | 20.0 | 16.8 | -- | 7.8 | -- | 96 | 19.00 |
| 81-10-02 | 1414 | 330 | .0 | .0 | 20.0 | -- | 7.5 | -- | 108 | 13.00 |
| 81-10-15 | 1000 | 330 | 15.5 | 10.7 | 20.0 | -- | 7.6 | -- | 125 | 2.90 |
| 81-11-03 | 1540 | 330 | 12.5 | 8.7 | 21.8 | -- | 7.5 | -- | 123 | 3.40 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1330 | 330 | 15. | .0 | 44.9 | 50.2 | 15.4 | 2.9 | .5 | 1.4 |
| 79-10-10 | 1030 | 330 | 5. | .0 | 50.4 | 62.4 | 17.7 | 4.4 | .7 | 3.4 |
| 79-10-31 | 1130 | 330 | 10. | .0 | 53.0 | 63.6 | 17.6 | 4.8 | .6 | 3.3 |
| 79-11-20 | 1305 | 330 | 15. | .0 | 59.0 | 69.6 | 20.3 | 4.6 | .7 | 4.5 |
| 79-12-20 | 1300 | 330 | 20. | .0 | 33.8 | 39.7 | 12.3 | 2.2 | .8 | 2.4 |
| 80-02-08 | 1414 | 330 | 15. | .0 | 63.0 | 72.0 | 21.2 | 4.6 | .8 | 4.9 |
| 80-03-03 | 1410 | 330 | 20. | .0 | 57.0 | 63.3 | 19.3 | 3.7 | .9 | 4.6 |
| 80-03-26 | 1320 | 330 | 20. | .0 | 60.4 | 67.1 | 20.3 | 4.0 | .9 | 5.3 |
| 80-04-23 | 1413 | 330 | 170. | .0 | 47.0 | 51.8 | 19.8 | .6 | .9 | 2.6 |
| 80-05-27 | 1340 | 330 | 40 | .0 | 45.2 | 49.4 | 15.9 | 2.4 | .6 | 2.1 |
| 80-06-05 | 1414 | 330 | 40. | .0 | 46.0 | 50.0 | 15.7 | 2.6 | .6 | 2.0 |
| 80-06-17 | 1431 | 330 | 50 | .0 | 41.5 | 46.4 | 14.3 | 2.6 | .5 | 1.6 |
| 80-07-02 | 1625 | 330 | 40 | .0 | 45.5 | 50.4 | 16.3 | 2.4 | 1.9 | 2.8 |
| 80-07-28 | 1255 | 330 | 30 | .0 | 50.5 | 55.2 | 17.0 | 3.1 | .6 | 1.9 |
| 80-09-16 | 1305 | 330 | 20 | .0 | 50.9 | 55.2 | 15.4 | 4.1 | .6 | 2.1 |
| 80-10-29 | 0822 | 330 | 25. | .0 | 53.8 | 58.4 | 19.2 | 2.5 | .6 | 2.8 |
| 81-01-02 | 1224 | 330 | 35. | .0 | 50.8 | 58.6 | 17.0 | 3.9 | .7 | 2.4 |
| 81-01-21 | 1338 | 330 | 20. | .0 | 56.7 | 64.6 | 18.2 | 4.7 | .7 | 3.4 |
| 81-03-12 | 1311 | 330 | 25. | .0 | 56.9 | 66.4 | 19.7 | 4.2 | .7 | 3.8 |
| 81-03-31 | 1101 | 330 | 25. | .0 | 62.6 | 69.7 | 19.9 | 4.9 | .8 | 4.1 |
| 81-05-05 | 1054 | 330 | 15. | .0 | 51.1 | 55.8 | 16.9 | 3.3 | .7 | 2.5 |
| 81-06-25 | 1123 | 330 | 15. | .0 | 44.4 | 51.0 | 15.5 | 3.0 | .5 | 2.0 |
| 81-08-13 | 1145 | 330 | 10. | .0 | 42.4 | 45.7 | 13.4 | -- | .5 | 1.3 |
| 81-10-02 | 1414 | 330 | 20. | .0 | 41.4 | 53.0 | 14.1 | 4.3 | .6 | 2.4 |
| 81-10-15 | 1000 | 330 | 20. | .0 | 49.7 | 59.0 | 14.1 | 5.8 | .7 | 3.0 |
| 81-11-03 | 1540 | 330 | 20. | .0 | 47.6 | 51.6 | 14.5 | 3.7 | .6 | 2.3 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08MC08MF0001
FRASER RIVER AT HWY 1 BRIDGE. HOPE, BRITISH COLUMBIA LAT. 49D 23M 12S LONG. 121D 26M 58S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1330 | 330 | 1.2 | .050 | 3.9 | 6.3 | .051 | -- | -- | -- |
| 79-10-10 | 1030 | 330 | 4.7 | .067 | 4.2 | 9.7 | .042 | -- | -- | -- |
| 79-10-31 | 1130 | 330 | 2.5 | .059 | 5.0 | 10.2 | .050 | -- | -- | -- |
| 79-11-20 | 1305 | 330 | 4.1 | .068 | 5.6 | 11.5 | .035 | -- | -- | -- |
| 79-12-20 | 1300 | 330 | 1.8 | L.050 | 6.1 | 7.7 | .087 | -- | -- | -- |
| 80-02-08 | 1414 | 330 | 4.1 | .057 | 6.9 | 12.4 | .113 | -- | -- | -- |
| 80-03-03 | 1410 | 330 | 3.9 | .069 | 6.9 | 11.5 | .117 | -- | -- | -- |
| 80-03-26 | 1320 | 330 | 4.8 | .056 | 6.8 | 12.3 | .096 | -- | -- | -- |
| 80-04-23 | 1413 | 330 | 2.0 | L.050 | 5.8 | 6.4 | .146 | -- | -- | -- |
| 80-05-27 | 1340 | 330 | 1.6 | L.050 | 4.8 | 6.3 | .001 | -- | -- | -- |
| 80-06-05 | 1414 | 330 | 1.4 | L.050 | 4.8 | 6.3 | .017 | -- | -- | -- |
| 80-06-17 | 1431 | 330 | 1.0 | L.050 | 4.6 | 6.4 | .029 | -- | -- | -- |
| 80-07-02 | 1625 | 330 | 1.2 | L.050 | 5.3 | 5.5 | .020 | -- | -- | -- |
| 80-07-28 | 1255 | 330 | 1.0 | L.050 | 4.3 | 6.3 | .019 | -- | -- | -- |
| 80-09-16 | 1305 | 330 | 1.3 | .045 | 4.8 | 7.1 | .036 | -- | -- | -- |
| 80-10-29 | 0822 | 330 | 2.1 | .050 | 5.3 | 8.9 | .042 | -- | -- | -- |
| 81-01-02 | 1224 | 330 | 1.8 | .050 | 5.9 | 6.9 | .118 | -- | -- | -- |
| 81-01-21 | 1338 | 330 | 2.6 | .050 | 6.2 | 8.9 | .096 | -- | -- | -- |
| 81-03-12 | 1311 | 330 | 2.7 | .100 | 6.4 | 8.9 | L.002 | -- | -- | -- |
| 81-03-31 | 1101 | 330 | 3.0 | .060 | 6.6 | 7.5 | .072 | -- | -- | -- |
| 81-05-05 | 1054 | 330 | 2.0 | .040 | 6.3 | 5.3 | .078 | -- | -- | -- |
| 81-06-25 | 1123 | 330 | 1.0 | .040 | 5.3 | 5.1 | L.002 | -- | -- | -- |
| 81-08-13 | 1145 | 330 | .4 | .030 | 4.3 | 6.1 | .022 | -- | -- | -- |
| 81-10-02 | 1414 | 330 | 1.6 | .050 | 4.8 | 7.9 | .066 | -- | -- | -- |
| 81-10-15 | 1000 | 330 | 2.2 | .050 | 5.1 | 8.8 | .039 | -- | -- | -- |
| 81-11-03 | 1540 | 330 | 1.3 | .750 | 5.0 | 7.4 | .063 | -- | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1330 | 330 | -- | 71. | 61. | 69. | 51. | -- | -- | -- |
| 79-10-10 | 1030 | 330 | -- | 12 | 86. | L10. | 72. | -- | -- | -- |
| 79-10-31 | 1130 | 330 | -- | L10. | 92. | L10. | 78. | -- | -- | -- |
| 79-11-20 | 1305 | 330 | -- | L10. | 96. | L10. | 78. | -- | -- | -- |
| 79-12-20 | 1300 | 330 | -- | 64. | 69. | 60. | 36. | -- | -- | -- |
| 80-02-08 | 1414 | 330 | -- | L10. | 102. | L10. | 72. | -- | -- | -- |
| 80-03-03 | 1410 | 330 | -- | L10. | 85. | L10. | 58. | -- | -- | -- |
| 80-03-26 | 1320 | 330 | -- | L10. | 86. | L10. | 56. | -- | -- | -- |
| 80-04-23 | 1413 | 330 | -- | 189. | 91. | 179. | 51. | -- | -- | -- |
| 80-05-27 | 1340 | 330 | -- | 50. | 75. | 46. | 52. | -- | -- | -- |
| 80-06-05 | 1414 | 330 | -- | 71. | 78. | 68. | 61. | -- | -- | -- |
| 80-06-17 | 1431 | 330 | -- | 130. | 70. | 120. | 48. | -- | -- | -- |
| 80-07-02 | 1625 | 330 | -- | 110 | 80. | 99. | 40. | -- | -- | -- |
| 80-07-28 | 1255 | 330 | -- | 52. | 83. | 46. | 73. | -- | -- | -- |
| 80-09-16 | 1305 | 330 | -- | L10. | 103. | L10. | 48. | -- | -- | -- |
| 80-10-29 | 0822 | 330 | -- | L10. | 81. | L10. | 66. | -- | -- | -- |
| 81-01-02 | 1224 | 330 | -- | 78. | 73. | 75. | 58. | -- | -- | -- |
| 81-01-21 | 1338 | 330 | -- | 12 | 86. | L10. | 52. | -- | -- | -- |
| 81-03-12 | 1311 | 330 | -- | L10. | 86. | L10. | 59. | -- | -- | -- |
| 81-03-31 | 1101 | 330 | -- | 36. | 90. | 34. | 53. | -- | -- | -- |
| 81-05-05 | 1054 | 330 | -- | 204. | 81. | 192. | 62. | -- | -- | -- |
| 81-06-25 | 1123 | 330 | -- | 56. | 61. | 50. | 51. | -- | -- | -- |
| 81-08-13 | 1145 | 330 | -- | 44. | 71. | 40. | 59. | -- | -- | -- |
| 81-10-02 | 1414 | 330 | -- | 27. | 90 | 18. | 64. | -- | -- | -- |
| 81-10-15 | 1000 | 330 | -- | L10. | 73. | L10. | 58. | -- | -- | -- |
| 81-11-03 | 1540 | 330 | -- | L10 | 65. | L10. | 51. | -- | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08MC08MF0001
FRASER RIVER AT HWY 1 BRIDGE. HOPE, BRITISH COLUMBIA LAT 49D 2M 12S LONG 121D 26M 58S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 32304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1330 | 330 | .0010 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-10-10 | 1030 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-10-31 | 1130 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-11-20 | 1305 | 330 | .0008 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-12-20 | 1300 | 330 | .0030 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-02-08 | 1414 | 330 | .0009 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-03-03 | 1410 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-03-26 | 1320 | 330 | .0008 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-23 | 1413 | 330 | .0008 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-05-27 | 1340 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-05 | 1414 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-17 | 1431 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-07-02 | 1625 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-07-28 | 1255 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-09-16 | 1305 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-10-29 | 0822 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-01-02 | 1224 | 330 | .0010 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-01-21 | 1338 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-03-12 | 1311 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-03-31 | 1101 | 330 | .0007 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-05 | 1054 | 330 | .0009 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-06-25 | 1123 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-13 | 1145 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-10-02 | 1414 | 330 | .0010 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-10-15 | 1000 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-11-03 | 1540 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1330 | 330 | -- | -- | 4870.00 | -- | -- | -- |
| 79-10-10 | 1030 | 330 | -- | -- | 1410.00 | -- | -- | -- |
| 79-10-31 | 1130 | 330 | -- | -- | 1210.00 | -- | -- | -- |
| 79-11-20 | 1305 | 330 | -- | -- | 856.00 | -- | -- | -- |
| 79-12-20 | 1300 | 330 | -- | -- | 1260.00 | -- | -- | -- |
| 80-01-11 | 1200 | 330 | -- | -- | -- | -- | -- | 538.00 |
| 80-02-08 | 1414 | 330 | -- | -- | 626.00 | -- | -- | -- |
| 80-03-03 | 1410 | 330 | -- | -- | 694.00 | -- | -- | -- |
| 80-03-26 | 1320 | 330 | -- | -- | 677.00 | -- | -- | -- |
| 80-04-23 | 1413 | 330 | -- | -- | 2740.00 | -- | -- | -- |
| 80-05-27 | 1340 | 330 | -- | -- | 4190.00 | -- | -- | -- |
| 80-06-05 | 1414 | 330 | -- | -- | 4460.00 | -- | -- | -- |
| 80-06-17 | 1431 | 330 | -- | -- | 5100.00 | -- | -- | -- |
| 80-06-22 | 1200 | 330 | -- | -- | -- | -- | 5070.00 | -- |
| 80-07-02 | 1625 | 330 | -- | -- | 5060.00 | -- | -- | -- |
| 80-07-28 | 1255 | 330 | -- | -- | 3670.00 | -- | -- | -- |
| 80-09-16 | 1305 | 330 | -- | -- | 2380.00 | -- | -- | -- |
| 80-10-29 | 0822 | 330 | -- | -- | 1510.00 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 2400.00 | -- | -- |
| 81-01-02 | 1224 | 330 | -- | -- | 2760.00 | -- | -- | -- |
| 81-01-21 | 1338 | 330 | -- | -- | 1460.00 | -- | -- | -- |
| 81-03-12 | 1311 | 330 | -- | -- | 1240.00 | -- | -- | -- |
| 81-03-31 | 1101 | 330 | -- | -- | 1440.00 | -- | -- | -- |
| 81-05-05 | 1054 | 330 | -- | -- | 3440.00 | -- | -- | -- |
| 81-05-30 | 1200 | 330 | -- | -- | -- | -- | 8370.00 | -- |
| 81-06-25 | 1123 | 330 | -- | -- | 5370.00 | -- | -- | -- |
| 81-08-13 | 1145 | 330 | -- | -- | 3820.00 | -- | -- | -- |
| 81-10-02 | 1414 | 330 | -- | -- | 1670.00 | -- | -- | -- |
| 81-10-15 | 1000 | 330 | -- | -- | 1540.00 | -- | -- | -- |
| 81-11-03 | 1540 | 330 | -- | -- | 1810.00 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 2760.00 | -- | 848.00 |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08MH0027
SUMAS RIVER AT INTERNATIONAL BOUNDARY, BRITISH COLUMBIA

LAT. 49D 0M 10S LONG. 122D 13M 50S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1030 | 330 | 26.0 | 19.0 | 20.6 | -- | 7.9 | -- | 273. | 2.50 |
| 79-07-24 | 1636 | 330 | 23.0 | 20.0 | 20.3 | -- | 8.2 | -- | 262. | 3.70 |
| 79-08-02 | 1420 | 330 | -- | 20.0 | 20.7 | -- | 8.0 | -- | 283. | 3.30 |
| 79-08-29 | 1200 | 330 | 20.5 | 17.0 | 20.7 | -- | 7.9 | -- | 272. | 1.90 |
| 79-09-18 | 1146 | 330 | 22.0 | 15.5 | 21.3 | -- | 7.9 | -- | 282. | 4.70 |
| 79-10-30 | 1050 | 330 | -- | 9.5 | 20.6 | -- | 7.6 | -- | 281. | 4.20 |
| 79-12-18 | 1502 | 330 | -- | 7.0 | 18.7 | -- | 7.3 | -- | 150. | 68.00 |
| 80-01-10 | 1505 | 330 | -8.5 | .5 | 19.5 | -- | 7.7 | -- | 300. | 18.00 |
| 80-04-11 | 1530 | 330 | 18.0 | 10.5 | 22.4 | -- | 7.9 | -- | 234. | 4.00 |
| 80-04-29 | 1119 | 330 | 10.0 | 11.5 | 19.9 | -- | 7.8 | -- | 263. | 5.40 |
| 80-07-09 | 1400 | 330 | 21.0 | 18.0 | 21.4 | -- | 7.9 | -- | 283. | 6.70 |
| 80-08-12 | 1050 | 330 | -- | -- | 21.1 | -- | 8.1 | -- | 289. | 2.70 |
| 80-08-15 | 1345 | 330 | 18.5 | 15.5 | 19.4 | -- | 8.0 | -- | 284. | 3.70 |
| 80-10-16 | 1603 | 330 | 14.0 | 9.0 | 21.4 | -- | 8.0 | -- | 288. | 14.00 |
| 80-11-20 | 1530 | 330 | 7.0 | 8.0 | 22.6 | -- | 7.5 | -- | 281. | 22.00 |
| 81-05-21 | 1532 | 330 | 14.5 | 12.5 | 22.6 | -- | 7.7 | -- | 288. | 12.00 |
| 81-07-21 | 1724 | 330 | 18.5 | 15.0 | 18.1 | -- | 7.9 | -- | 293. | 12.00 |
| 81-08-14 | 1033 | 330 | 24.0 | 17.0 | 17.1 | -- | 7.7 | -- | 294. | 2.90 |
| 81-09-18 | 1019 | 330 | -- | -- | 20.9 | -- | 7.8 | -- | 283. | 5.10 |
| 81-10-15 | 1137 | 330 | 14.0 | 9.0 | 20.7 | -- | 7.7 | -- | 295. | 6.90 |
| 81-12-17 | 1048 | 330 | 4.5 | 4.0 | 19.4 | -- | 7.3 | -- | 256. | 7.20 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1030 | 330 | 15. | .0 | 105.2 | 116.0 | 24.5 | 13.3 | 1.8 | 11.4 |
| 79-07-24 | 1636 | 330 | 15. | .0 | 108.7 | 120.0 | 24.1 | 14.5 | 2.0 | 11.9 |
| 79-08-02 | 1420 | 330 | 10. | .0 | 101.0 | 115.0 | 25.9 | 12.2 | 1.9 | 12.5 |
| 79-08-29 | 1200 | 330 | 10. | .0 | 107.0 | 118.0 | 25.8 | 13.0 | 2.2 | 10.9 |
| 79-09-18 | 1146 | 330 | 30. | .0 | 108.0 | 120.0 | 26.6 | 13.0 | 2.4 | 10.7 |
| 79-10-30 | 1050 | 330 | 20 | .0 | 106.0 | 124.0 | 27.2 | 13.6 | 3.9 | 9.6 |
| 79-12-18 | 1502 | 330 | 40. | .0 | 39.7 | 50.0 | 10.6 | 8.1 | 5.5 | 3.1 |
| 80-01-10 | 1505 | 330 | 20. | .0 | 104.0 | 130.0 | 24.9 | 16.5 | 2.6 | 11.1 |
| 80-04-11 | 1530 | 330 | 30. | .0 | 82.7 | 104.0 | 18.7 | 13.9 | 2.3 | 6.7 |
| 80-04-29 | 1119 | 330 | 85. | .0 | 98.5 | 119.0 | 35.3 | 7.5 | 2.2 | 9.3 |
| 80-07-09 | 1400 | 330 | 45. | .0 | 110.0 | 124.0 | 34.1 | 9.4 | 2.2 | 9.2 |
| 80-08-12 | 1050 | 330 | 25. | .0 | 107.0 | 125.0 | 20.9 | 17.7 | 1.7 | 11.0 |
| 80-08-15 | 1345 | 330 | 25. | .0 | 102.0 | 121.0 | 21.2 | 16.5 | 1.9 | 10.8 |
| 80-10-16 | 1603 | 330 | 25. | .0 | 105.0 | 121.0 | 22.4 | 15.8 | 2.7 | 9.6 |
| 80-11-20 | 1530 | 330 | 100. | .0 | 96.7 | 122.0 | 46.1 | 1.7 | 5.2 | 7.1 |
| 81-05-21 | 1532 | 330 | 30. | .0 | 106.0 | 120.0 | 22.6 | 15.4 | 1.9 | 9.5 |
| 81-07-21 | 1724 | 330 | 30. | .0 | 110.0 | 126.0 | 20.4 | 18.2 | 2.4 | 9.4 |
| 81-08-14 | 1033 | 330 | 20. | .0 | 108.0 | 123.0 | 23.6 | 15.6 | 1.9 | 11.0 |
| 81-09-18 | 1019 | 330 | 25. | .0 | 103.0 | 119.0 | 22.0 | 15.6 | 1.9 | 10.0 |
| 81-10-15 | 1137 | 330 | 35. | .0 | 108.0 | 131.0 | 22.0 | 18.5 | 3.0 | 9.0 |
| 81-12-17 | 1048 | 330 | 35. | .0 | 95.2 | 119.0 | 16.1 | 19.1 | 2.7 | 7.6 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1030 | 330 | 18.0 | .067 | 18.6 | 10.2 | .870 | -- | -- | -- |
| 79-07-24 | 1636 | 330 | 18.0 | .055 | 18.6 | 10.6 | .960 | -- | -- | -- |
| 79-08-02 | 1420 | 330 | 19.8 | .074 | 4.0 | 10.9 | 1.080 | -- | -- | -- |
| 79-08-29 | 1200 | 330 | 16.2 | .082 | 20.0 | 10.0 | 1.250 | -- | -- | -- |
| 79-09-18 | 1146 | 330 | 17.2 | .059 | 22.7 | 9.7 | 1.030 | -- | -- | -- |
| 79-10-30 | 1050 | 330 | 14.5 | .069 | L.6 | 15.9 | 1.360 | -- | -- | -- |
| 79-12-18 | 1502 | 330 | 7.7 | .054 | 10.0 | 12.7 | 2.500 | -- | -- | -- |
| 80-01-10 | 1505 | 330 | 19.3 | .081 | 25.4 | 17.0 | 2.500 | -- | -- | -- |
| 80-04-11 | 1530 | 330 | 11.4 | .092 | 15.8 | 11.5 | 1.500 | -- | -- | -- |
| 80-04-29 | 1119 | 330 | 15.3 | L.050 | 19.3 | 11.5 | 1.530 | -- | -- | -- |
| 80-07-09 | 1400 | 330 | 14.1 | .064 | 42.5 | 10.7 | 1.260 | -- | -- | -- |
| 80-08-12 | 1050 | 330 | 18.3 | .052 | 18.7 | 11.0 | 1.310 | -- | -- | -- |
| 80-08-15 | 1345 | 330 | 17.6 | L.050 | 19.4 | 12.0 | 1.480 | -- | -- | -- |
| 80-10-16 | 1603 | 330 | 15.3 | .060 | 21.6 | 9.8 | 1.350 | -- | -- | -- |
| 80-11-20 | 1530 | 330 | 13.3 | .080 | 19.8 | 15.1 | 2.420 | -- | -- | -- |
| 81-05-21 | 1532 | 330 | 14.8 | .060 | 21.0 | 9.7 | 1.790 | -- | -- | -- |
| 81-07-21 | 1724 | 330 | 14.5 | .060 | 22.0 | 8.4 | 1.625 | -- | -- | -- |
| 81-08-14 | 1033 | 330 | 17.3 | .060 | 22.5 | 10.4 | 1.900 | -- | -- | -- |
| 81-09-18 | 1019 | 330 | 15.5 | .060 | 22.2 | 11.7 | 1.850 | -- | -- | -- |
| 81-10-15 | 1137 | 330 | 15.2 | .060 | 23.6 | 13.4 | 2.670 | 3.000 | -- | -- |
| 81-12-17 | 1048 | 330 | 13.2 | .070 | 21.2 | 10.9 | 3.300 | 3.500 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08MH0027
SUMAS RIVER AT INTERNATIONAL BOUNDARY, BRITISH COLUMBIA

LAT. 49D 0M 10S LONG 122D 13M 50S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1030 | 330 | -- | L10. | 171. | L10. | 113. | -- | -- | -- |
| 79-07-24 | 1636 | 330 | -- | L10. | 187. | L10. | 125. | -- | -- | -- |
| 79-08-02 | 1420 | 330 | -- | L10. | 181. | L10. | 122 | -- | -- | -- |
| 79-08-29 | 1200 | 330 | -- | L10. | 225. | L10. | 122 | -- | -- | -- |
| 79-09-18 | 1146 | 330 | -- | L10. | 185. | L10. | 141. | -- | -- | -- |
| 79-10-30 | 1050 | 330 | -- | L10. | 189. | L10 | 119. | -- | -- | -- |
| 79-12-18 | 1502 | 330 | -- | 67. | 110. | 59 | 49. | -- | -- | -- |
| 80-01-10 | 1505 | 330 | -- | 20. | 206. | 15 | 120 | -- | -- | -- |
| 80-04-11 | 1530 | 330 | -- | 43. | 159. | 38. | 85. | -- | -- | -- |
| 80-04-29 | 1119 | 330 | -- | 15. | 175. | 12 | 108. | -- | -- | -- |
| 80-07-09 | 1400 | 330 | -- | L10. | 190. | L10 | 110 | -- | -- | -- |
| 80-08-12 | 1050 | 330 | -- | L10. | 189. | L10 | 145. | -- | -- | -- |
| 80-08-15 | 1345 | 330 | -- | L10. | 381. | L10 | 124 | -- | -- | -- |
| 80-10-16 | 1803 | 330 | -- | L10. | 180. | L10 | 120. | -- | -- | -- |
| 80-11-20 | 1530 | 330 | -- | 36. | 228. | 28 | 128. | -- | -- | -- |
| 81-05-21 | 1532 | 330 | -- | 44. | 188. | 36 | 125 | -- | -- | -- |
| 81-07-21 | 1724 | 330 | -- | 24 | 183. | 20. | 109 | -- | -- | -- |
| 81-08-14 | 1033 | 330 | -- | L10. | 200. | L10. | 130. | -- | -- | -- |
| 81-09-18 | 1019 | 330 | -- | L10. | 190. | L10 | 91 | -- | -- | -- |
| 81-10-15 | 1137 | 330 | -- | 10 | 200 | L10. | 130 | L .05 | 010 | -- |
| 81-12-17 | 1048 | 330 | -- | L10 | 173. | L10. | 103 | L .05 | .003 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1030 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-07-24 | 1636 | 330 | .0015 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-08-02 | 1420 | 330 | .0011 | 0001 | -- | -- | -- | -- | -- | -- |
| 79-08-29 | 1200 | 330 | .0011 | L .0001 | -- | -- | -- | -- | -- | -- |
| 79-09-18 | 1146 | 330 | .0010 | 0001 | -- | -- | -- | -- | -- | -- |
| 79-10-30 | 1050 | 330 | .0011 | 0001 | -- | -- | -- | -- | -- | -- |
| 79-12-18 | 1502 | 330 | .0026 | 0001 | -- | -- | -- | -- | -- | -- |
| 80-01-10 | 1505 | 330 | .0011 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-04-11 | 1530 | 330 | .0009 | L .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-29 | 1119 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-09 | 1400 | 330 | 0011 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-12 | 1050 | 330 | .0011 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-15 | 1345 | 330 | .0010 | 0001 | -- | -- | -- | -- | -- | -- |
| 80-10-16 | 1803 | 330 | 0009 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-11-20 | 1530 | 330 | 0015 | 0001 | -- | -- | -- | -- | -- | -- |
| 81-05-21 | 1532 | 330 | .0012 | L .0001 | -- | -- | -- | -- | -- | -- |
| 81-07-21 | 1724 | 330 | 0011 | L .0001 | -- | -- | -- | -- | -- | -- |
| 81-08-14 | 1033 | 330 | .0008 | 0001 | -- | -- | -- | -- | -- | -- |
| 81-09-18 | 1019 | 330 | .0010 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-10-15 | 1137 | 330 | .0010 | .0001 | -- | .090 | -- | 002 | 1.40 | -- |
| 81-12-17 | 1048 | 330 | .0004 | L .0001 | -- | .110 | -- | .050 | 1.10 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 0OBEC0SMH0027 LAT. 49D 0M 10S LONG. 122D 13M 50S
SUMAS RIVER AT INTERNATIONAL BOUNDARY, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1030 | 330 | -- | -- | .55 | -- | -- | -- |
| 79-07-24 | 1636 | 330 | -- | -- | .35 | -- | -- | -- |
| 79-08-02 | 1420 | 330 | -- | -- | .26 | -- | -- | -- |
| 79-08-29 | 1200 | 330 | -- | -- | .64 | -- | -- | -- |
| 79-09-18 | 1146 | 330 | -- | -- | .67 | -- | -- | -- |
| 79-10-30 | 1050 | 330 | -- | -- | .95 | -- | -- | -- |
| 79-12-18 | 1502 | 330 | -- | -- | 25.10 | -- | -- | -- |
| 80-01-10 | 1505 | 330 | -- | -- | 2.30 | -- | -- | -- |
| 80-04-11 | 1530 | 330 | -- | -- | 5.73 | -- | -- | -- |
| 80-04-29 | 1119 | 330 | -- | -- | 2.93 | -- | -- | -- |
| 80-07-09 | 1400 | 330 | -- | -- | 1.79 | -- | -- | -- |
| 80-08-12 | 1050 | 330 | -- | -- | .76 | -- | -- | -- |
| 80-08-13 | 1200 | 330 | -- | -- | -- | -- | -- | .70 |
| 80-08-15 | 1345 | 330 | -- | -- | .76 | -- | -- | -- |
| 80-10-16 | 1603 | 330 | -- | -- | 1.02 | -- | -- | -- |
| 80-11-20 | 1530 | 330 | -- | -- | 5.45 | -- | -- | -- |
| 80-12-27 | 1200 | 330 | -- | -- | -- | -- | 27.10 | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 3.30 | -- | -- |
| 81-05-21 | 1532 | 330 | -- | -- | 2.60 | -- | -- | -- |
| 81-06-11 | 1200 | 330 | -- | -- | -- | -- | 16.30 | -- |
| 81-07-21 | 1724 | 330 | -- | -- | 2.37 | -- | -- | -- |
| 81-08-14 | 1033 | 330 | -- | -- | 1.16 | -- | -- | -- |
| 81-08-19 | 1200 | 330 | -- | -- | -- | -- | -- | 1.02 |
| 81-09-18 | 1019 | 330 | -- | -- | 1.05 | -- | -- | -- |
| 81-10-15 | 1137 | 330 | L.0005 | .002 | 2.01 | -- | -- | -- |
| 81-12-17 | 1048 | 330 | L.0005 | L.000 | 5.19 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 3.98 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - DOBCOBNE0001 LAT 49D 1M 39S LONG 117D 36M 11S
COLUMBIA RIVER BELOW TRAIL, 1.8 KM NORTH OF WANETA POWER DAM, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 0800 | 330 | -- | 17.0 | 22.1 | -- | 7.6 | -- | 122 | 82 |
| 79-11-02 | 1555 | 330 | -- | 10.0 | 20.7 | -- | 7.8 | -- | 154 | 95 |
| 80-01-23 | 1515 | 330 | -- | 3.0 | 18.4 | -- | 7.7 | -- | 152 | 75 |
| 80-03-26 | 1348 | 330 | -- | 4.5 | 21.7 | -- | 7.8 | -- | 180 | 95 |
| 80-10-08 | 1310 | 330 | 19.0 | 16.0 | 22.4 | -- | 7.9 | -- | 137 | 87 |
| 80-12-30 | 1450 | 330 | 6.5 | 5.0 | 21.5 | -- | 7.8 | -- | 140 | 24 |
| 81-02-17 | 0915 | 330 | 7.0 | 4.0 | 20.5 | -- | 7.5 | -- | 144 | 29 |
| 81-05-12 | 1055 | 330 | -- | -- | 21.7 | -- | 7.8 | -- | 149 | 65 |
| 81-05-15 | 1055 | 330 | -- | -- | 21.4 | -- | 7.8 | -- | 152 | 1.20 |
| 81-08-19 | 1450 | 330 | 32.0 | 18.0 | 19.4 | -- | 7.7 | -- | 116 | 40 |
| 81-11-20 | 1201 | 330 | 7.0 | 8.0 | 21.2 | -- | 7.7 | -- | 145 | 62 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 0800 | 330 | 5. | 0 | 48.2 | 60.8 | 18.0 | 3.8 | 6 | 1.2 |
| 79-11-02 | 1555 | 330 | L5. | 0 | 54.7 | 75.8 | 21.8 | 5.2 | 5 | 1.6 |
| 80-01-23 | 1515 | 330 | 5. | 0 | 59.4 | 76.0 | 22.6 | 4.8 | 7 | 1.5 |
| 80-03-26 | 1348 | 330 | L5. | 0 | 61.8 | 84.6 | 27.0 | 4.2 | 7 | 2.0 |
| 80-10-08 | 1310 | 330 | 10. | 0 | 49.2 | 66.2 | 21.3 | 3.2 | 5 | 1.5 |
| 80-12-30 | 1450 | 330 | 5. | 0 | 56.7 | 69.5 | 20.3 | 4.6 | 6 | 1.3 |
| 81-02-17 | 0915 | 330 | 5. | 0 | 56.3 | 70.5 | 20.1 | 4.9 | 6 | 1.3 |
| 81-05-12 | 1055 | 330 | 10. | 0 | 57.8 | 69.3 | 20.6 | 4.2 | 5 | 1.7 |
| 81-05-15 | 1055 | 330 | 10. | 0 | 56.5 | 70.9 | 21.8 | 4.0 | 6 | 1.8 |
| 81-08-19 | 1450 | 330 | 5. | 0 | 48.6 | 55.6 | 15.7 | 4.0 | 3 | 1.1 |
| 81-11-20 | 1201 | 330 | 5 | 0 | 54.1 | 72.3 | 18.9 | 6.1 | 5 | 1.3 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 0800 | 330 | .8 | .125 | 3.0 | 11.9 | 057 | -- | -- | -- |
| 79-11-02 | 1555 | 330 | 1.2 | .190 | 3.4 | 20.0 | 062 | -- | -- | -- |
| 80-01-23 | 1515 | 330 | .9 | .230 | 4.0 | 17.1 | 142 | -- | -- | -- |
| 80-03-26 | 1348 | 330 | 1.7 | .240 | 4.4 | 25.0 | .136 | -- | -- | -- |
| 80-10-08 | 1310 | 330 | 1.2 | .120 | 3.4 | 19.7 | 041 | -- | -- | -- |
| 80-12-30 | 1450 | 330 | .7 | .110 | 4.1 | 12.2 | .134 | -- | -- | -- |
| 81-02-17 | 0915 | 330 | .8 | .110 | 4.2 | 12.5 | .170 | -- | -- | -- |
| 81-05-12 | 1055 | 330 | 1.2 | .120 | 4.9 | 11.9 | 091 | -- | -- | -- |
| 81-05-15 | 1055 | 330 | 1.0 | .190 | 4.9 | 14.7 | .079 | -- | -- | -- |
| 81-08-19 | 1450 | 330 | .5 | .110 | 3.7 | 9.2 | .075 | .141 | 12.3 | L.1 |
| 81-11-20 | 1201 | 330 | .8 | 2.600 | 3.9 | 14.1 | .093 | .189 | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 0800 | 330 | -- | L10. | 77. | L10. | 55. | -- | -- | -- |
| 79-11-02 | 1555 | 330 | -- | L10. | 84. | L10. | 68. | -- | -- | -- |
| 80-01-23 | 1515 | 330 | -- | L10. | 98. | L10. | 71. | -- | -- | -- |
| 80-03-26 | 1348 | 330 | -- | L10. | 109. | L10. | 84. | -- | -- | -- |
| 80-10-08 | 1310 | 330 | -- | L10. | 90. | L10. | 74. | -- | -- | -- |
| 80-12-30 | 1450 | 330 | -- | L10. | 83. | L10. | 73. | -- | -- | -- |
| 81-02-17 | 0915 | 330 | -- | L10. | 95. | L10. | 61. | -- | -- | -- |
| 81-05-12 | 1055 | 330 | -- | L10. | 79. | L10. | 62. | -- | -- | -- |
| 81-05-15 | 1055 | 330 | -- | L10. | 91. | L10. | 70. | -- | -- | -- |
| 81-08-19 | 1450 | 330 | -- | L10. | 110. | L10. | 53. | .05 | .002 | -- |
| 81-11-20 | 1201 | 330 | -- | L10. | 101. | L10. | 70. | L.05 | .004 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - DOECORNE0001 LAT. 49D 1M 39S LONG. 117D 38M 11S
COLUMBIA RIVER BELOW TRAIL, 1.8 KM NORTH OF WANETA POWER DAM. BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 0800 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-11-02 | 1555 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-01-23 | 1515 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-03-26 | 1348 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-08 | 1310 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-12-30 | 1450 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-17 | 0915 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-12 | 1055 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-15 | 1055 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-08-19 | 1450 | 330 | .0002 | .0001 | -- | .010 | -- | .070 | -- | .050 |
| 81-11-20 | 1201 | 330 | .0003 | .0001 | -- | .010 | -- | .030 | .08 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 0800 | 330 | -- | -- | 1540.00 | -- | -- | -- |
| 79-11-02 | 1555 | 330 | -- | -- | 1200.00 | -- | -- | -- |
| 80-01-23 | 1515 | 330 | -- | -- | 1470.00 | -- | -- | -- |
| 80-03-26 | 1348 | 330 | -- | -- | 811.00 | -- | -- | -- |
| 80-10-08 | 1310 | 330 | -- | -- | 1110.00 | -- | -- | -- |
| 80-12-30 | 1450 | 330 | -- | -- | 3090.00 | -- | -- | -- |
| 81-02-17 | 0915 | 330 | -- | -- | 2580.00 | -- | -- | -- |
| 81-04-18 | 1200 | 330 | -- | -- | -- | -- | -- | 555.00 |
| 81-05-12 | 1055 | 330 | -- | -- | 1570.00 | -- | -- | -- |
| 81-05-15 | 1055 | 330 | -- | -- | 1540.00 | -- | -- | -- |
| 81-07-07 | 1200 | 330 | -- | -- | -- | -- | 4790.00 | -- |
| 81-08-19 | 1450 | 330 | .0005 | .002 | 3530.00 | -- | -- | -- |
| 81-11-20 | 1201 | 330 | L.0005 | .005 | 1700.00 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 2280.00 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NE0010 LAT. 49D 09M 55S LONG. 117D 58M 39S
BIG SHEEP CREEK, 12.7 KM SW OF ROSSLAND AT OLD CASCADE HWY BRIDGE. BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-04 | 1000 | 330 | 8.0 | 6.5 | 21.1 | -- | 7.5 | -- | 111 | .90 |
| 80-01-16 | 1048 | 330 | 1.0 | .5 | 19.4 | -- | 7.7 | -- | 104 | 1.10 |
| 80-02-21 | 1300 | 330 | 3.0 | 40.5 | 20.1 | -- | 7.8 | -- | 102 | 1.30 |
| 80-04-08 | 1435 | 330 | 7.0 | 2.0 | 20.6 | -- | 8.0 | -- | 80. | .68 |
| 80-05-01 | 1344 | 330 | 26.0 | 6.5 | 22.4 | -- | 7.2 | -- | 47. | 2.40 |
| 80-05-15 | 1315 | 330 | 16.0 | 6.0 | 20.3 | -- | 7.4 | -- | 52 | .75 |
| 80-07-08 | 1100 | 330 | 22.0 | 13.0 | 21.6 | -- | 7.6 | -- | 90 | .58 |
| 80-10-08 | 0956 | 330 | 17.0 | 8.5 | 22.3 | -- | 7.8 | -- | 99. | .75 |
| 80-11-20 | 1155 | 330 | 1.0 | 3.5 | 20.0 | -- | 7.6 | -- | 103 | .64 |
| 81-01-02 | 1340 | 330 | 1.5 | 2.0 | 18.0 | -- | 7.6 | -- | 86 | .64 |
| 81-02-06 | 1330 | 330 | -- | 1.0 | 20.1 | -- | 7.1 | -- | 88 | .32 |
| 81-04-13 | 1309 | 330 | 9.5 | 3.5 | 20.0 | -- | 7.9 | -- | 94 | .45 |
| 81-05-13 | 1030 | 330 | 19.0 | 6.0 | 22.7 | -- | 7.4 | -- | 84 | .85 |
| 81-07-20 | 1045 | 330 | 16.0 | 10.0 | 15.8 | -- | 7.7 | -- | 80 | .43 |
| 81-09-25 | 1437 | 330 | 12.0 | 7.0 | 21.8 | -- | 7.6 | -- | 104 | .70 |
| 81-10-30 | 1430 | 330 | 5.0 | 5.0 | 21.7 | -- | 7.5 | -- | 99 | .38 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-04 | 1000 | 330 | 5. | .0 | 50.2 | 56.7 | 16.8 | 3.6 | 7 | 1.8 |
| 80-01-16 | 1048 | 330 | 5. | .0 | 47.4 | 48.1 | 15.5 | 2.3 | 7 | 2.0 |
| 80-02-21 | 1300 | 330 | 5 | 0 | 47.2 | 46.6 | 15.5 | 1.9 | 6 | 1.8 |
| 80-04-08 | 1435 | 330 | 5. | 0 | 40.0 | 42.0 | 13.9 | 1.8 | .5 | 1.7 |
| 80-05-01 | 1344 | 330 | 30. | 0 | 18.1 | 20.7 | 8.0 | .2 | 5 | 1.3 |
| 80-05-15 | 1315 | 330 | 20. | .0 | 20.4 | 22.9 | 9.0 | .1 | 5 | 1.2 |
| 80-07-08 | 1100 | 330 | 15. | .0 | 40.1 | 41.6 | 13.9 | 1.7 | 6 | 1.8 |
| 80-10-08 | 0956 | 330 | 10 | 0 | 47.1 | 49.4 | 14.7 | 3.1 | .7 | 1.9 |
| 80-11-20 | 1155 | 330 | 10. | 0 | 4.0 | 44.8 | 14.0 | 2.4 | 6 | 1.9 |
| 81-01-02 | 1340 | 330 | 15 | .0 | 36.2 | 37.4 | 12.0 | 1.8 | .5 | 1.6 |
| 81-02-06 | 1330 | 330 | 10 | .0 | 37.6 | 43.4 | 12.9 | 2.7 | .6 | 1.7 |
| 81-04-13 | 1309 | 330 | 10. | .0 | 40.5 | 44.1 | 14.2 | 2.1 | .5 | 1.7 |
| 81-05-13 | 1030 | 330 | 15. | 0 | 25.5 | 27.3 | 8.9 | 1.2 | 4 | 1.4 |
| 81-07-20 | 1045 | 330 | 10. | .0 | 35.3 | 36.7 | 10.6 | 2.5 | .3 | 1.6 |
| 81-09-25 | 1437 | 330 | 15. | .0 | 47.6 | 47.6 | 13.4 | 3.4 | .5 | 1.9 |
| 81-10-30 | 1430 | 330 | 15. | .0 | 43.8 | 47.6 | 14.1 | 3.0 | .7 | 1.9 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-04 | 1000 | 330 | .5 | .148 | 13.0 | 4.5 | L.002 | -- | -- | -- |
| 80-01-16 | 1048 | 330 | .4 | .125 | 12.9 | 5.3 | .044 | -- | -- | -- |
| 80-02-21 | 1300 | 330 | .3 | .142 | 12.5 | 4.6 | .038 | -- | -- | -- |
| 80-04-08 | 1435 | 330 | .5 | .120 | .5 | 4.3 | 052 | -- | -- | -- |
| 80-05-01 | 1344 | 330 | 1.0 | .080 | 9.5 | 3.2 | 010 | -- | -- | -- |
| 80-05-15 | 1315 | 330 | .5 | .070 | 9.8 | 3.0 | L.002 | -- | -- | -- |
| 80-07-08 | 1100 | 330 | .7 | .115 | 12.2 | 3.4 | 004 | -- | -- | -- |
| 80-10-08 | 0956 | 330 | .5 | .080 | 13.2 | 4.3 | L.002 | -- | -- | -- |
| 80-11-20 | 1155 | 330 | .6 | .110 | 12.6 | 4.0 | .030 | -- | -- | -- |
| 81-01-02 | 1340 | 330 | .5 | .120 | 11.6 | 4.5 | .050 | -- | -- | -- |
| 81-02-06 | 1330 | 330 | .6 | .110 | 11.5 | 4.4 | .026 | -- | -- | -- |
| 81-04-13 | 1309 | 330 | .6 | .110 | 11.9 | 4.3 | .022 | -- | -- | -- |
| 81-05-13 | 1030 | 330 | .4 | .090 | 10.5 | 3.9 | 006 | -- | -- | -- |
| 81-07-20 | 1045 | 330 | .3 | .100 | 11.7 | 3.1 | L.002 | -- | -- | -- |
| 81-09-25 | 1437 | 330 | .4 | .120 | 12.8 | 3.5 | .123 | .132 | -- | -- |
| 81-10-30 | 1430 | 330 | .7 | 1.450 | 11.9 | 3.7 | .019 | 093 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08ME0010 LAT. 49D 0M 55S LONG. 117D 56M 39S
BIG SHEEP CREEK, 12.7 KM SW OF ROSSLAND AT OLD CASCADE HWY BRIDGE. BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-04 | 1000 | 330 | -- | L10. | 82. | L10. | 67. | -- | -- | -- |
| 80-01-16 | 1048 | 330 | -- | L10. | 86. | L10. | 66. | -- | -- | -- |
| 80-02-21 | 1300 | 330 | -- | L10. | 74. | L10. | 72. | -- | -- | -- |
| 80-04-08 | 1435 | 330 | -- | L10. | 73. | L10. | 59. | -- | -- | -- |
| 80-05-01 | 1344 | 330 | -- | L10. | 54. | L10. | 20. | -- | -- | -- |
| 80-05-15 | 1315 | 330 | -- | L10. | 80. | L10. | 45. | -- | -- | -- |
| 80-07-08 | 1100 | 330 | -- | L10. | 73. | L10. | 40. | -- | -- | -- |
| 80-10-08 | 0956 | 330 | -- | L10. | 73. | L10. | 64. | -- | -- | -- |
| 80-11-20 | 1155 | 330 | -- | L10. | 81. | L10. | 53. | -- | -- | -- |
| 81-01-02 | 1340 | 330 | -- | L10. | 119. | L10. | 39. | -- | -- | -- |
| 81-02-06 | 1330 | 330 | -- | L10. | 58. | L10. | 51. | -- | -- | -- |
| 81-04-13 | 1309 | 330 | -- | L10. | 65. | L10. | 48. | -- | -- | -- |
| 81-05-13 | 1030 | 330 | -- | L10. | 58. | L10. | 41. | -- | -- | -- |
| 81-07-20 | 1045 | 330 | -- | L10. | 58. | L10 | 31. | -- | -- | -- |
| 81-09-25 | 1437 | 330 | -- | L10 | 70 | L10. | 53 | L.05 | L.001 | -- |
| 81-10-30 | 1430 | 330 | -- | L10. | 70. | L10 | 66 | L.05 | 004 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-04 | 1000 | 330 | .0002 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-01-16 | 1048 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-02-21 | 1300 | 330 | .0001 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-08 | 1435 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-05-01 | 1344 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-05-15 | 1315 | 330 | .0001 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-08 | 1100 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-10-08 | 0956 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-11-20 | 1155 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-01-02 | 1340 | 330 | L.0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-02-06 | 1330 | 330 | L.0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-13 | 1309 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-13 | 1030 | 330 | L.0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-07-20 | 1045 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-09-25 | 1437 | 330 | .0003 | L.0001 | -- | .010 | -- | .080 | .25 | -- |
| 81-10-30 | 1430 | 330 | L.0001 | L.0001 | -- | .170 | -- | .007 | 1.40 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-10-04 | 1000 | 330 | -- | -- | .52 | -- | -- | -- |
| 80-01-16 | 1048 | 330 | -- | -- | .54 | -- | -- | -- |
| 80-01-31 | 1200 | 330 | -- | -- | -- | -- | -- | .46 |
| 80-02-21 | 1300 | 330 | -- | -- | .56 | -- | -- | -- |
| 80-04-08 | 1435 | 330 | -- | -- | 4.96 | -- | -- | -- |
| 80-04-29 | 1200 | 330 | -- | -- | -- | -- | 74.20 | -- |
| 80-05-01 | 1344 | 330 | -- | -- | 56.90 | -- | -- | -- |
| 80-05-15 | 1315 | 330 | -- | -- | 27.00 | -- | -- | -- |
| 80-07-08 | 1100 | 330 | -- | -- | 2.50 | -- | -- | -- |
| 80-10-08 | 0956 | 330 | -- | -- | .90 | -- | -- | -- |
| 80-11-20 | 1155 | 330 | -- | -- | 1.60 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 6.51 | -- | -- |
| 81-01-02 | 1340 | 330 | -- | -- | 5.53 | -- | -- | -- |
| 81-02-06 | 1330 | 330 | -- | -- | 3.46 | -- | -- | -- |
| 81-04-13 | 1308 | 330 | -- | -- | 5.46 | -- | -- | -- |
| 81-06-13 | 1030 | 330 | -- | -- | 18.80 | -- | -- | -- |
| 81-05-26 | 1200 | 330 | -- | -- | -- | -- | 55.40 | -- |
| 81-07-20 | 1045 | 330 | -- | -- | 7.28 | -- | -- | -- |
| 81-09-25 | 1437 | 330 | L.0005 | L.001 | .92 | -- | -- | -- |
| 81-09-26 | 1200 | 330 | -- | -- | -- | -- | -- | .84 |
| 81-10-30 | 1430 | 330 | L.0005 | .002 | 2.40 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 8.18 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08NE0020 LAT. 49D 1M 23S LONG. 117D 22M 9S
PEND D'OREILLE RIVER BELOW INTERNATIONAL BOUNDARY BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C | 02061L TEMP. WATER DEG. C | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-09-25 | 1520 | 330 | 18.0 | 15.0 | 21.1 | -- | 8.1 | -- | 171. | .74 |
| 80-10-09 | 1352 | 330 | 19.0 | 15.0 | 22.2 | -- | 8.1 | -- | 184. | .64 |
| 81-02-17 | 1623 | 330 | 6.0 | 3.0 | 18.7 | -- | 7.8 | -- | 167. | .87 |
| 81-05-14 | 1338 | 330 | 21.0 | 10.0 | 22.6 | -- | 8.0 | -- | 153. | 2.00 |
| 81-08-19 | 1414 | 330 | 32.0 | 24.0 | 18.8 | -- | 8.3 | -- | 155. | .40 |
| 81-09-24 | 1505 | 330 | 14.0 | 17.0 | 22.0 | -- | 8.1 | -- | 169. | 1.00 |
| 81-11-19 | 1350 | 330 | 5.5 | 7.0 | 21.2 | -- | 7.9 | -- | 179. | .35 |
| 81-11-20 | 1227 | 330 | 7.5 | 6.5 | 21.3 | -- | 7.9 | -- | 179. | .40 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-09-25 | 1520 | 330 | 10. | .0 | 79.2 | 82.6 | 22.2 | 6.0 | .8 | 3.0 |
| 80-10-09 | 1352 | 330 | 5. | .0 | 80.6 | 84.0 | 22.7 | 5.6 | .8 | 3.0 |
| 81-02-17 | 1623 | 330 | 10. | .0 | 76.6 | 86.2 | 22.7 | 7.2 | .8 | 2.8 |
| 81-05-14 | 1338 | 330 | 10. | .0 | 67.5 | 72.0 | 20.9 | 4.8 | .6 | 2.7 |
| 81-08-19 | 1414 | 330 | 10. | .0 | 72.4 | 70.4 | 20.4 | 6.9 | .5 | 2.3 |
| 81-09-24 | 1505 | 330 | 10. | .0 | 78.6 | 80.0 | 20.4 | 7.1 | .5 | 2.5 |
| 81-11-19 | 1350 | 330 | L5. | .0 | 77.2 | 87.3 | 22.0 | 7.9 | .7 | 2.7 |
| 81-11-20 | 1227 | 330 | L5. | .0 | 75.4 | 87.3 | 22.0 | 7.9 | .7 | 2.6 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-09-25 | 1520 | 330 | 1.3 | .060 | 6.2 | 9.2 | .002 | -- | -- | -- |
| 80-10-09 | 1352 | 330 | 1.1 | .070 | 6.4 | 9.5 | L.002 | -- | -- | -- |
| 81-02-17 | 1623 | 330 | .8 | .070 | 7.3 | 9.1 | .043 | -- | -- | -- |
| 81-05-14 | 1338 | 330 | .8 | .070 | 6.9 | 7.1 | .003 | -- | -- | -- |
| 81-08-19 | 1414 | 330 | .6 | .080 | 6.4 | 6.6 | .007 | .105 | 19.2 | 1.6 |
| 81-09-24 | 1505 | 330 | .7 | .070 | 5.5 | 6.1 | .051 | .094 | -- | -- |
| 81-11-19 | 1350 | 330 | .8 | 1.300 | 6.8 | 7.7 | .004 | .100 | -- | -- |
| 81-11-20 | 1227 | 330 | .8 | 1.350 | 6.8 | 7.7 | .007 | .084 | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-09-25 | 1520 | 330 | -- | L10. | 102. | L10. | 71. | -- | -- | -- |
| 80-10-09 | 1352 | 330 | -- | L10. | 100. | L10. | 79. | -- | -- | -- |
| 81-02-17 | 1623 | 330 | -- | L10. | 128. | L10 | 90. | -- | -- | -- |
| 81-05-14 | 1338 | 330 | -- | L10. | 100. | L10. | 70. | -- | -- | -- |
| 81-08-19 | 1414 | 330 | -- | L10. | 130. | L10. | 67. | L.05 | .002 | -- |
| 81-09-24 | 1505 | 330 | -- | L10. | 96. | L10. | 75. | L.05 | L.001 | -- |
| 81-11-19 | 1350 | 330 | -- | L10. | 81. | L10. | 75. | L.05 | .001 | -- |
| 81-11-20 | 1227 | 330 | -- | L10. | 81. | L10. | 77. | L.05 | .001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 80-09-25 | 1520 | 330 | .0011 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-09 | 1352 | 330 | .0012 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-02-17 | 1623 | 330 | .0008 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-14 | 1338 | 330 | .0007 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-19 | 1414 | 330 | .0008 | .0001 | -- | .020 | -- | .007 | -- | .037 |
| 81-09-24 | 1505 | 330 | .0015 | L.0001 | -- | .020 | -- | .030 | .07 | -- |
| 81-11-19 | 1350 | 330 | .0007 | L.0001 | -- | L.010 | -- | .016 | .06 | -- |
| 81-11-20 | 1227 | 330 | .0007 | L.0001 | -- | .010 | -- | .002 | .06 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 008CO8NE0020 LAT. 49D 1M 23S LONG. 117D 22M 9S
PEND D'OREILLE RIVER BELOW INTERNATIONAL BOUNDARY BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 80-02-24 | 1200 | 330 | -- | -- | -- | -- | -- | 143.00 |
| 80-05-30 | 1200 | 330 | -- | -- | -- | -- | 2820.00 | -- |
| 80-09-25 | 1520 | 330 | -- | -- | 329.00 | -- | -- | -- |
| 80-10-09 | 1352 | 330 | -- | -- | 796.00 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 694.00 | -- | -- |
| 81-02-17 | 1623 | 330 | -- | -- | 821.00 | -- | -- | -- |
| 81-05-14 | 1338 | 330 | -- | -- | 1100.00 | -- | -- | -- |
| 81-05-29 | 1200 | 330 | -- | -- | -- | -- | 3000.00 | -- |
| 81-08-19 | 1414 | 330 | .0005 | .002 | 309.00 | -- | -- | -- |
| 81-08-23 | 1200 | 330 | -- | -- | -- | -- | -- | 141.00 |
| 81-09-24 | 1505 | 330 | L.0005 | L.001 | 555.00 | -- | -- | -- |
| 81-11-18 | 1350 | 330 | L.0005 | L.001 | 501.00 | -- | -- | -- |
| 81-11-20 | 1227 | 330 | L.0005 | L.001 | 595.00 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 858.00 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NE0029 LAT. 49D 0M 11S LONG. 117D 37M 0S
PEND D'OREILLE RIVER BELOW WANETA POWER DAM AT RAILWAY BRIDGE, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-11-02 | 1440 | 330 | -- | 8.8 | 20.6 | -- | 8.0 | -- | 169 | 1.00 |
| 80-01-23 | 1500 | 330 | -- | 1.5 | 19.5 | -- | 7.9 | -- | 173 | .70 |
| 80-03-26 | 1359 | 330 | -- | 7.0 | 21.6 | -- | 8.1 | -- | 164 | 2.70 |
| 80-09-22 | 1830 | 330 | 15.0 | 17.0 | 18.6 | 7.9 | 8.1 | 170. | 168 | .94 |
| 80-10-08 | 1300 | 330 | 19.0 | 15.0 | 22.3 | -- | 8.2 | -- | 174 | .57 |
| 80-12-30 | 1435 | 330 | 6.5 | 2.5 | 21.4 | -- | 8.0 | -- | 172. | .35 |
| 81-02-17 | 0850 | 330 | 9.0 | 2.0 | 20.4 | -- | 7.8 | -- | 177. | .68 |
| 81-05-12 | 1025 | 330 | -- | -- | 21.7 | -- | 8.0 | -- | 150. | .97 |
| 81-05-15 | 1130 | 330 | -- | -- | 21.6 | -- | 8.0 | -- | 148 | 2.00 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-11-02 | 1440 | 330 | L5. | .0 | 79.2 | 91.3 | 23.5 | 7.9 | .8 | 2.8 |
| 80-01-23 | 1500 | 330 | L5. | 0 | 79.9 | 85.2 | 23.9 | 6.2 | .9 | 2.9 |
| 80-03-26 | 1359 | 330 | 5 | .0 | 74.8 | 79.5 | 22.7 | 5.5 | .8 | 2.6 |
| 80-09-22 | 1830 | 330 | 10. | 0 | 75.1 | 80.4 | 22.7 | 5.8 | .9 | 2.9 |
| 80-10-08 | 1300 | 330 | 10 | 0 | 80.1 | 84.2 | 23.8 | 6.0 | .8 | 3.0 |
| 80-12-30 | 1435 | 330 | 5 | 0 | 75.1 | 81.5 | 23.0 | 5.9 | .7 | 2.8 |
| 81-02-17 | 0850 | 330 | 5. | .0 | 77.7 | 87.3 | 23.4 | 7.0 | .7 | 2.7 |
| 81-05-12 | 1025 | 330 | 10 | .0 | 66.3 | 70.3 | 20.3 | 4.8 | .6 | 2.5 |
| 81-05-15 | 1130 | 330 | 10. | .0 | 65.7 | 68.7 | 20.3 | 4.4 | .6 | 2.5 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-11-02 | 1440 | 330 | 1.0 | .07[illegible] | 6.6 | 11.5 | .006 | -- | -- | -- |
| 80-01-23 | 1500 | 330 | .9 | 160 | 6.9 | 10.3 | .029 | -- | -- | -- |
| 80-03-26 | 1359 | 330 | 1.1 | .078 | 7.1 | 9.2 | .004 | -- | -- | -- |
| 80-09-22 | 1830 | 330 | 1.1 | .060 | 5.5 | 9.3 | .009 | -- | -- | -- |
| 80-10-08 | 1300 | 330 | 1.1 | .050 | 6.6 | 9.6 | L.002 | -- | -- | -- |
| 80-12-30 | 1435 | 330 | 1.0 | .080 | 7.0 | 9.8 | 042 | -- | -- | -- |
| 81-02-17 | 0850 | 330 | 1.0 | 070 | 7.1 | 9.0 | 050 | -- | -- | -- |
| 81-05-12 | 1025 | 330 | .7 | 170 | 6.8 | 7.7 | 004 | -- | -- | -- |
| 81-05-15 | 1130 | 330 | .8 | .070 | 6.8 | 7.8 | .007 | -- | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06[illegible]6P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-11-02 | 1440 | 330 | -- | L10. | 100. | L10. | 87. | -- | -- | -- |
| 80-01-23 | 1500 | 330 | -- | L10. | 116. | L10. | 94 | -- | -- | -- |
| 80-03-26 | 1359 | 330 | -- | L10. | 92. | L10. | 82. | -- | -- | -- |
| 80-09-22 | 1830 | 330 | -- | L10. | 94. | L10. | 62. | -- | -- | -- |
| 80-10-08 | 1300 | 330 | -- | L10. | 100. | L10. | 75. | -- | -- | -- |
| 80-12-30 | 1435 | 330 | -- | L10. | 93. | L10. | 84. | -- | -- | -- |
| 81-02-17 | 0850 | 330 | -- | L10. | 126. | L10. | 77. | -- | -- | -- |
| 81-05-12 | 1025 | 330 | -- | L10. | 107. | L10. | 70. | -- | -- | -- |
| 81-05-15 | 1130 | 330 | -- | L10. | 91. | L10. | 74. | -- | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-11-02 | 1440 | 330 | .0011 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-01-23 | 1500 | 330 | .0011 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-03-26 | 1359 | 330 | .0007 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-09-22 | 1830 | 330 | .0011 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-10-08 | 1300 | 330 | .0010 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-12-30 | 1435 | 330 | .0010 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-17 | 0850 | 330 | .0010 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-12 | 1025 | 330 | .0008 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-15 | 1130 | 330 | .0008 | L.0001 | -- | -- | -- | -- | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NE0029 LAT. 49D 0M 11S LONG. 117D 37M 05
PEND D'OREILLE RIVER BELOW WANETA POWER DAM AT RAILWAY BRIDGE. BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-11-02 | 1440 | 330 | -- | -- | 523.86 | -- | -- | -- |
| 80-01-23 | 1500 | 330 | -- | -- | 402.10 | -- | -- | -- |
| 80-02-24 | 1200 | 330 | -- | -- | -- | -- | -- | 96.28 |
| 80-03-26 | 1359 | 330 | -- | -- | 543.68 | -- | -- | -- |
| 80-05-30 | 1200 | 330 | -- | -- | -- | -- | 2746.70 | -- |
| 80-09-22 | 1830 | 330 | -- | -- | 512.53 | -- | -- | -- |
| 80-10-08 | 1300 | 330 | -- | -- | 869.33 | -- | -- | -- |
| 80-12-30 | 1435 | 330 | -- | -- | 206.71 | -- | -- | -- |
| 81-02-17 | 0850 | 330 | -- | -- | 787.21 | -- | -- | -- |
| 81-05-12 | 1025 | 330 | -- | -- | 1111.00 | -- | -- | -- |
| 81-05-15 | 1130 | 330 | -- | -- | 1166.60 | -- | -- | -- |
| 81-05-27 | 1200 | 330 | -- | -- | -- | -- | 3080.90 | -- |
| 81-09-06 | 1200 | 330 | -- | -- | -- | -- | -- | 178.40 |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 008CO8NG0002 LAT. 49D 25M 17S LONG 115D 25M 10S
KOOTENAY RIVER AT HWY 3 CROSSING. WARDNER, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-24 | 0830 | 330 | -- | 15.5 | 20.3 | -- | 8.2 | -- | 210 | 7.30 |
| 79-10-15 | 0815 | 330 | -- | 8.5 | 19.2 | -- | 8.1 | -- | 331 | 1.70 |
| 79-11-21 | 1430 | 330 | -- | .5 | 20.8 | -- | 8.1 | -- | 375 | 1.80 |
| 80-01-21 | 1330 | 330 | -- | .0 | 19.5 | -- | 8.0 | -- | 376. | 1.80 |
| 80-03-21 | 1400 | 330 | -- | 6.0 | 20.4 | -- | 8.1 | -- | 402 | 4.00 |
| 80-04-16 | 1430 | 331 | 18.5 | 9.0 | 22.0 | -- | 8.0 | -- | 370. | 5.50 |
| 80-04-23 | 1400 | 330 | 22.5 | 10.0 | 22.2 | -- | 7.8 | -- | 253. | 3.20 |
| 80-04-25 | 1320 | 330 | 18.0 | 7.0 | 21.8 | -- | 7.9 | -- | 21. | 16.00 |
| 80-04-30 | 1400 | 331 | 21.0 | 7.0 | 20.0 | -- | 8.0 | -- | 160 | 74.00 |
| 80-05-13 | 1430 | 331 | 23.0 | 9.5 | 20.2 | -- | 8.0 | -- | 185 | 12.00 |
| 80-05-21 | 1400 | 331 | 28.0 | 9.5 | 21.0 | -- | 8.0 | -- | 158 | 18.00 |
| 80-05-29 | 1245 | 330 | 13.0 | 8.0 | 21.4 | -- | 8.1 | -- | 212 | 18.00 |
| | 1339 | 331 | 14.0 | 9.0 | 20.4 | -- | 8.0 | -- | 195 | 27.00 |
| 80-06-04 | 1323 | 331 | 10.0 | 7.0 | 21.0 | -- | 8.0 | -- | 202. | 23.00 |
| 80-06-12 | 1230 | 331 | 24.0 | 11.0 | 24.2 | -- | 8.1 | -- | 193 | 68.00 |
| 80-06-18 | 1323 | 331 | 25.5 | 11.0 | 21.3 | -- | 8.1 | -- | 188. | 35.00 |
| 80-06-25 | 1400 | 331 | 18.0 | 11.0 | 21.1 | -- | 8.1 | -- | 192. | 22.00 |
| 80-06-26 | 1210 | 330 | 13.0 | 10.0 | 21.1 | -- | 8.1 | -- | 200. | 19.00 |
| 80-07-03 | 1430 | 331 | 24.0 | 14.5 | 21.1 | -- | 8.1 | -- | 224. | 7.70 |
| 80-07-09 | 1430 | 331 | 33.0 | 15.5 | 21.4 | -- | 8.1 | -- | 232. | 4.50 |
| 80-07-16 | 1325 | 331 | 22.0 | 15.0 | 21.4 | -- | 8.1 | -- | 226. | 3.90 |
| 80-07-23 | 1430 | 331 | 30.0 | 17.0 | 23.8 | -- | 8.1 | -- | 244. | 2.90 |
| 80-07-24 | 1810 | 330 | 26.0 | 17.5 | 23.8 | -- | 8.0 | -- | 241. | 3.90 |
| | 1815 | 330 | 26.0 | 17.5 | 23.4 | -- | 8.1 | -- | 244. | 4.00 |
| 80-08-03 | 1230 | 331 | 21.0 | 10.0 | 21.3 | -- | 8.2 | -- | 249. | 62 |
| 80-08-07 | 1320 | 331 | 24.0 | 15.0 | 24.5 | -- | 8.3 | -- | 267. | 1.40 |
| 80-08-09 | 1037 | 330 | 27.0 | 15.0 | 22.1 | 8.6 | 8.2 | 280. | 262. | 2.20 |
| 80-08-13 | 1340 | 331 | 30.0 | 14.0 | 22.2 | -- | 8.3 | -- | 284. | 38 |
| 80-08-20 | 1400 | 331 | 24.0 | 16.1 | 21.3 | -- | 8.1 | -- | 254. | 2.80 |
| 80-08-27 | 1440 | 330 | 10.0 | 14.0 | 21.5 | -- | 8.1 | -- | 285. | 2.20 |
| 80-09-16 | 1440 | 330 | -- | -- | 22.3 | -- | 8.2 | -- | 265. | 1.70 |
| 80-09-26 | 1240 | 330 | 16.0 | 10.0 | 19.2 | -- | 8.1 | -- | 263. | 78 |
| 80-10-15 | 1430 | 331 | 16.0 | 7.0 | 21.8 | -- | 8.3 | -- | 287. | 65 |
| 80-10-18 | 1144 | 330 | 10.5 | 10.0 | 21.4 | 8.4 | 8.1 | 340. | 306. | 68 |
| 80-10-24 | 1220 | 330 | 11.0 | 5.0 | 19.7 | -- | 8.1 | -- | 323. | 2.00 |
| 80-11-26 | 1420 | 331 | 1.0 | -- | 22.7 | -- | 8.2 | -- | 341. | 90 |
| 80-11-27 | 1245 | 330 | 2.5 | -- | 21.2 | -- | 8.1 | -- | 355. | 1.50 |
| 80-12-03 | 1231 | 330 | -8.5 | .5 | 22.8 | 8.8 | 8.2 | 380. | 336. | 1.30 |
| 81-01-13 | 1230 | 331 | -4.0 | -- | 19.8 | -- | 8.1 | -- | 309. | .77 |
| 81-02-04 | 1010 | 330 | -9.0 | -- | 19.9 | -- | 7.7 | -- | 356. | .78 |
| 81-02-12 | 1201 | 330 | -10.0 | .5 | 16.3 | 7.5 | 8.1 | 370. | 370. | .65 |
| 81-04-03 | 1410 | 330 | 3.5 | 6.0 | 18.7 | -- | 8.2 | -- | 332. | 86 |
| 81-04-08 | 1257 | 330 | 8.0 | 7.0 | 18.5 | 8.5 | 8.3 | 320. | 330. | 31 |
| 81-04-30 | 1400 | 330 | 22.0 | 8.5 | 21.1 | -- | 8.1 | -- | 258. | 2.50 |
| 81-08-25 | 0940 | 330 | 23.0 | 15.0 | 21.4 | -- | 8.2 | -- | 242. | .60 |
| 81-10-27 | 1030 | 330 | 8.5 | 6.0 | 21.5 | -- | 8.1 | -- | 321. | 1.20 |
| 81-11-25 | 1050 | 330 | -2.0 | 2.0 | 21.4 | -- | 8.2 | -- | 315. | .85 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08SC08NG0002 LAT. 49D 25M 17S LONG. 115D 25M 10S
KOOTENAY RIVER AT HWY 3 CROSSING, WARDNER, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. | UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-24 | 0830 | 330 | 10. | | .0 | 84.1 | 101.0 | 28.6 | 7.2 | .5 | 3.1 |
| 79-10-15 | 0815 | 330 | 10. | | .0 | 115.0 | 166.0 | 45.5 | 12.7 | .5 | 6.4 |
| 79-11-21 | 1430 | 330 | 25. | | .0 | 126.0 | 177.0 | 47.2 | 14.4 | .7 | 9.5 |
| 80-01-21 | 1330 | 330 | 30. | | .0 | 127.0 | 180.0 | 49.7 | 13.6 | .7 | 9.5 |
| 80-03-21 | 1400 | 330 | 20. | | .0 | 124.0 | 185.0 | 50.3 | 14.4 | .8 | 12.1 |
| 80-04-16 | 1430 | 331 | 30. | | .0 | 119.0 | 182.0 | 52.6 | 12.3 | .9 | 8.3 |
| 80-04-23 | 1400 | 330 | 30. | | .0 | 94.0 | 121.0 | 35.1 | 8.1 | .6 | 5.5 |
| 80-04-25 | 1320 | 330 | 60. | | .0 | 75.9 | 102.0 | 28.8 | 7.3 | .7 | 4.3 |
| 80-04-30 | 1400 | 331 | 200. | | .0 | 78.6 | 81.0 | 26.6 | 3.5 | .6 | 1.0 |
| 80-05-13 | 1430 | 331 | 40. | | .0 | 73.7 | 89.7 | 29.3 | 4.0 | .4 | 2.3 |
| 80-05-21 | 1400 | 331 | 20. | | .0 | 68.3 | 78.2 | 25.9 | 3.3 | .3 | 1.9 |
| 80-05-29 | 1245 | 330 | 15. | | .0 | 96.8 | 111.0 | 32.7 | 7.1 | .3 | 1.3 |
| | 1339 | 331 | 30. | | .0 | 86.9 | 96.7 | 29.1 | 5.8 | .5 | 2.1 |
| 80-06-04 | 1323 | 331 | 30. | | .0 | 88.1 | 101.7 | 29.5 | 6.9 | .3 | 2.0 |
| 80-06-12 | 1230 | 331 | 50. | | .0 | 92.0 | 98.3 | 29.3 | 6.1 | .3 | 1.9 |
| 80-06-18 | 1323 | 331 | 30 | | .0 | 90.9 | 102.0 | 23.9 | 10.3 | .3 | 1.4 |
| 80-06-25 | 1400 | 331 | 10. | | .0 | 84.3 | 97.3 | 27.9 | 6.7 | .8 | 1.2 |
| 80-06-26 | 1210 | 330 | 5. | | .0 | 82.2 | 98.1 | 27.7 | 7.0 | .3 | 2.2 |
| 80-07-03 | 1430 | 331 | 5. | | .0 | 87.3 | 116.0 | 26.3 | 10.0 | .4 | 2.9 |
| 80-07-09 | 1430 | 331 | 15 | | .0 | 91.6 | 113.0 | 32.3 | 7.9 | .5 | 3.5 |
| 80-07-16 | 1325 | 331 | 10. | | .0 | 86.5 | 109.0 | 30.4 | 8.0 | .4 | 3.1 |
| 80-07-23 | 1430 | 331 | 20. | | .0 | 90.1 | 117.0 | 32.3 | 8.8 | .4 | 3.6 |
| 80-07-24 | 1810 | 330 | 20. | | .0 | 89.9 | 116.0 | 31.5 | 9.1 | .3 | 3.5 |
| | 1815 | 330 | 15. | | .0 | 92.8 | 117.0 | 33.1 | 8.3 | .3 | 3.2 |
| 80-08-03 | 1230 | 331 | 5. | | .0 | 117.0 | 140.0 | 45.2 | 6.6 | .4 | .8 |
| 80-08-07 | 1320 | 331 | 15. | | .0 | 99.4 | 127.0 | 36.0 | 9.0 | .4 | 4.0 |
| 80-08-09 | 1037 | 330 | 15. | | .0 | 99.0 | 125.0 | 34.4 | 9.5 | .5 | 4.0 |
| 80-08-13 | 1340 | 331 | 15. | | .0 | 124.0 | 149.0 | 29.8 | 18.1 | .2 | .6 |
| 80-08-20 | 1400 | 331 | 15. | | .0 | 93.1 | 120.0 | 33.9 | 8.6 | .4 | 4.0 |
| 80-08-27 | 1440 | 330 | 20. | | .0 | 105.0 | 137.0 | 39.2 | 9.5 | .7 | 5.0 |
| 80-09-16 | 1440 | 330 | 20. | | .0 | 97.7 | 128.0 | 34.8 | 10.0 | .4 | 4.7 |
| 80-09-26 | 1240 | 330 | 25. | | .0 | 100.8 | 131.0 | 36.4 | 9.7 | .6 | 5.8 |
| 80-10-15 | 1430 | 331 | 25. | | .0 | 106.0 | 139.8 | 38.6 | 10.6 | .6 | 6.4 |
| 80-10-18 | 1144 | 330 | 20. | | .0 | 107.0 | 143.0 | 39.8 | 10.6 | .5 | 5.6 |
| 80-10-24 | 1220 | 330 | 25. | | .0 | 112.0 | 151.0 | 41.2 | 11.7 | .6 | 7.3 |
| 80-11-26 | 1420 | 331 | 30. | | .0 | 114.0 | 160.0 | 42.6 | 13.0 | .7 | 7.2 |
| 80-11-27 | 1245 | 330 | 40. | | .0 | 116.0 | 164.0 | 46.8 | 11.4 | .6 | 8.6 |
| 80-12-03 | 1231 | 330 | 30. | | .0 | 115.0 | 158.0 | 47.7 | 9.4 | .8 | 5.7 |
| 81-01-13 | 1230 | 331 | 25. | | .0 | 109.0 | 153.0 | 40.9 | 12.4 | .5 | 6.4 |
| 81-02-04 | 1010 | 330 | 35. | | .0 | 116.0 | 165.0 | 45.6 | 12.4 | .7 | 8.2 |
| 81-02-12 | 1201 | 330 | 30. | | .0 | 130.0 | 182.0 | 47.6 | 15.3 | .7 | 7.9 |
| 81-04-03 | 1410 | 330 | 20. | | .0 | 111.0 | 158.0 | 42.6 | 12.5 | .6 | 6.4 |
| 81-04-08 | 1257 | 330 | 15. | | .5 | 113.0 | 156.0 | 43.7 | 11.4 | .8 | 5.8 |
| 81-04-30 | 1400 | 330 | 20. | | .0 | 99.2 | 121.0 | 34.9 | 8.2 | .4 | 3.6 |
| 81-08-25 | 0940 | 330 | 5. | | .0 | 95.1 | 115.0 | 29.9 | 9.8 | .5 | 2.9 |
| 81-10-27 | 1030 | 330 | 25 | | .0 | 118.0 | 159.0 | 41.7 | 13.3 | .6 | 7.2 |
| 81-11-25 | 1050 | 330 | 15. | | .0 | 112.0 | 159.0 | 39.3 | 14.8 | .5 | 4.9 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 008C08NG0002 LAT. 49D 25M 17S LONG. 115D 25M 10S
KOOTENAY RIVER AT HWY 3 CROSSING, WARDNER, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-24 | 0830 | 330 | 3.9 | .072 | 3.9 | 21.0 | .004 | -- | -- | -- |
| 79-10-15 | 0815 | 330 | 6.8 | .210 | 4.9 | 46.5 | .073 | -- | -- | -- |
| 79-11-21 | 1430 | 330 | 9.8 | .220 | 5.8 | 51.0 | .105 | -- | -- | -- |
| 80-01-21 | 1330 | 330 | 12.0 | .105 | 6.2 | 55.0 | .159 | -- | -- | -- |
| 80-03-21 | 1400 | 330 | 16.9 | .240 | 5.7 | 61.0 | .132 | -- | -- | -- |
| 80-04-18 | 1430 | 331 | 8.6 | .200 | 5.0 | 60.0 | L.002 | -- | -- | -- |
| 80-04-23 | 1400 | 330 | 6.0 | .120 | 5.9 | 36.0 | .088 | -- | -- | -- |
| 80-04-25 | 1320 | 330 | 4.9 | .100 | 5.9 | 25.0 | .168 | -- | -- | -- |
| 80-04-30 | 1400 | 331 | 2.0 | L.050 | 5.3 | 12.9 | .202 | -- | -- | -- |
| 80-05-13 | 1430 | 331 | 2.5 | .080 | 4.9 | 15.4 | .098 | -- | -- | -- |
| 80-05-21 | 1400 | 331 | 2.3 | .070 | 4.3 | 13.1 | .091 | -- | -- | -- |
| 80-05-29 | 1245 | 330 | 1.3 | .075 | 4.1 | 12.9 | .088 | -- | -- | -- |
| | 1339 | 331 | 2.2 | .085 | 4.4 | 13.7 | .064 | -- | -- | -- |
| 80-06-04 | 1323 | 331 | 2.0 | .072 | 4.4 | 13.7 | .076 | -- | -- | -- |
| 80-06-12 | 1230 | 331 | 2.0 | .080 | 4.3 | 12.0 | .072 | -- | -- | -- |
| 80-06-18 | 1323 | 331 | 1.4 | .074 | 4.0 | 13.4 | .060 | -- | -- | -- |
| 80-06-25 | 1400 | 331 | 2.1 | .080 | 4.1 | 15.9 | .057 | -- | -- | -- |
| 80-06-26 | 1210 | 330 | 2.4 | .088 | 4.2 | 17.0 | .068 | -- | -- | -- |
| 80-07-03 | 1430 | 331 | 3.1 | .092 | 4.8 | 22.5 | .058 | -- | -- | -- |
| 80-07-09 | 1430 | 331 | 3.4 | .116 | 4.5 | 24.0 | .055 | -- | -- | -- |
| 80-07-16 | 1325 | 331 | 3.1 | .114 | 4.4 | 24.0 | .057 | -- | -- | -- |
| 80-07-23 | 1430 | 331 | 4.0 | .114 | 4.2 | 24.5 | L.002 | -- | -- | -- |
| 80-07-24 | 1810 | 330 | 4.0 | .112 | 4.2 | 24.5 | .051 | -- | -- | -- |
| | 1815 | 330 | 3.6 | .111 | 4.2 | 25.0 | .050 | -- | -- | -- |
| 80-08-03 | 1230 | 331 | .5 | .083 | 3.9 | 21.5 | .060 | -- | -- | -- |
| 80-08-07 | 1320 | 331 | 4.8 | .125 | 4.3 | 26.0 | .045 | -- | -- | -- |
| 80-08-09 | 1037 | 330 | 5.5 | .122 | 4.3 | 26.5 | .049 | -- | -- | -- |
| 80-08-13 | 1340 | 331 | .5 | .074 | 3.9 | 25.0 | .053 | -- | -- | -- |
| 80-08-20 | 1400 | 331 | 5.0 | .120 | 4.4 | 22.0 | .046 | -- | -- | -- |
| 80-08-27 | 1440 | 330 | 6.7 | .121 | 4.5 | 28.5 | .040 | -- | -- | -- |
| 80-09-16 | 1440 | 330 | 5.6 | .050 | 4.8 | 27.0 | .065 | -- | -- | -- |
| 80-09-26 | 1240 | 330 | 6.4 | .110 | 4.7 | 32.5 | .046 | -- | -- | -- |
| 80-10-15 | 1430 | 331 | 7.6 | .120 | 4.8 | 35.0 | .063 | -- | -- | -- |
| 80-10-18 | 1144 | 330 | 6.8 | .140 | 4.7 | 36.5 | .057 | -- | -- | -- |
| 80-10-24 | 1220 | 330 | 8.7 | .130 | 5.2 | 41.0 | .072 | -- | -- | -- |
| 80-11-26 | 1420 | 331 | 8.7 | .180 | 6.0 | 47.5 | .122 | -- | -- | -- |
| 80-11-27 | 1245 | 330 | 10.6 | .150 | 5.6 | 48.0 | .118 | -- | -- | -- |
| 80-12-03 | 1231 | 330 | 8.1 | .140 | 5.4 | 45.5 | .163 | -- | -- | -- |
| 81-01-13 | 1230 | 331 | 7.1 | .160 | 5.7 | 46.0 | .136 | -- | -- | -- |
| 81-02-04 | 1010 | 330 | 9.6 | .170 | 5.6 | 52.0 | .126 | -- | -- | -- |
| 81-02-12 | 1201 | 330 | 8.7 | .190 | 6.1 | 47.0 | .135 | -- | -- | -- |
| 81-04-03 | 1410 | 330 | 6.4 | .140 | 5.8 | 46.0 | .091 | -- | -- | -- |
| 81-04-08 | 1257 | 330 | 5.7 | .180 | 5.6 | 45.5 | .103 | -- | -- | -- |
| 81-04-30 | 1400 | 330 | 3.9 | .040 | 5.8 | 23.4 | .117 | -- | -- | -- |
| 81-08-25 | 0840 | 330 | 2.9 | .110 | 4.7 | 22.6 | .052 | .033 | 24.7 | .0 |
| 81-10-27 | 1030 | 330 | 9.2 | L.050 | 5.2 | 38.0 | .093 | .155 | -- | -- |
| 81-11-25 | 1050 | 330 | 5.5 | 2.300 | 5.4 | 40.5 | .096 | .171 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NG0002
KOOTENAY RIVER AT HWY 3 CROSSING. WARDNER, BRITISH COLUMBIA LAT. 49D 25M 17S LONG. 115D 29M 10S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-24 | 0830 | 330 | -- | 14. | 128. | 12. | 89. | -- | -- | -- |
| 79-10-15 | 0815 | 330 | -- | L10. | 211. | L10. | 167. | -- | -- | -- |
| 79-11-21 | 1430 | 330 | -- | L10. | 241. | L10. | 195. | -- | -- | -- |
| 80-01-21 | 1330 | 330 | -- | L10. | 241. | L10. | 187. | -- | -- | -- |
| 80-03-21 | 1400 | 330 | -- | L10. | 252. | L10. | 185. | -- | -- | -- |
| 80-04-16 | 1430 | 331 | -- | 12. | 240. | 10. | 90. | -- | -- | -- |
| 80-04-23 | 1400 | 330 | -- | 20. | 200. | 17. | 1233. | -- | -- | -- |
| 80-04-25 | 1320 | 330 | -- | 41. | 230. | 38. | 104. | -- | -- | -- |
| 80-04-30 | 1400 | 331 | -- | 415. | 150. | 355. | 60. | -- | -- | -- |
| 80-05-13 | 1430 | 331 | -- | 55. | 120. | 44. | 100. | -- | -- | -- |
| 80-05-21 | 1400 | 331 | -- | 58. | 103. | 48. | 86. | -- | -- | -- |
| 80-05-29 | 1245 | 330 | -- | 48. | 177. | 40. | 100. | -- | -- | -- |
| | 1339 | 331 | -- | 76. | 116. | 70. | 90. | -- | -- | -- |
| 80-06-04 | 1323 | 331 | -- | 62. | 120. | 50. | 88. | -- | -- | -- |
| 80-06-12 | 1230 | 331 | -- | 120. | 58. | 120 | 48 | -- | -- | -- |
| 80-06-18 | 1323 | 331 | -- | 94. | 150. | 86. | 82 | -- | -- | -- |
| 80-06-25 | 1400 | 331 | -- | 25. | 140. | 18. | 96. | -- | -- | -- |
| 80-06-26 | 1210 | 330 | -- | 36. | 150. | 34 | 85 | -- | -- | -- |
| 80-07-03 | 1430 | 331 | -- | 14. | 140. | L10. | 91. | -- | -- | -- |
| 80-07-09 | 1430 | 331 | -- | L10. | 160. | L10. | 100. | -- | -- | -- |
| 80-07-16 | 1325 | 331 | -- | L10. | 150. | L10. | 92 | -- | -- | -- |
| 80-07-23 | 1430 | 331 | -- | 11. | 150. | L10. | 130. | -- | -- | -- |
| 80-07-24 | 1810 | 330 | -- | 11. | 160. | L10. | 100. | -- | -- | -- |
| | 1815 | 330 | -- | 11. | 160. | L10. | 130. | -- | -- | -- |
| 80-08-03 | 1230 | 331 | -- | L10. | 156. | L10. | 120. | -- | -- | -- |
| 80-08-07 | 1320 | 331 | -- | L10. | 161. | L10. | 137. | -- | -- | -- |
| 80-08-09 | 1037 | 330 | -- | L10. | 156. | L10. | 129. | -- | -- | -- |
| 80-08-13 | 1340 | 331 | -- | L10. | 178. | L10. | 154. | -- | -- | -- |
| 80-08-20 | 1400 | 331 | -- | L10. | 158. | L10. | 113 | -- | -- | -- |
| 80-08-27 | 1440 | 330 | -- | L10. | 173. | L10. | 128. | -- | -- | -- |
| 80-09-16 | 1440 | 330 | -- | 10. | 160. | L10. | 130. | -- | -- | -- |
| 80-09-26 | 1240 | 330 | -- | L10. | 174. | L10 | 125 | -- | -- | -- |
| 80-10-15 | 1430 | 331 | -- | L10. | 180. | L10. | 150 | -- | -- | -- |
| 80-10-18 | 1144 | 330 | -- | L10. | 170. | L10. | 130 | -- | -- | -- |
| 80-10-24 | 1220 | 330 | -- | L10. | 190. | L10 | 150. | -- | -- | -- |
| 80-11-26 | 1420 | 331 | -- | L10. | 200. | L10. | 169. | -- | -- | -- |
| 80-11-27 | 1245 | 330 | -- | L10. | 216. | L10. | 174. | -- | -- | -- |
| 80-12-03 | 1231 | 330 | -- | 24. | 225. | 20. | 165. | -- | -- | -- |
| 81-01-13 | 1230 | 331 | -- | L10. | 191. | L10. | 153. | -- | -- | -- |
| 81-02-04 | 1010 | 330 | -- | L10. | 200. | L10. | 141. | -- | -- | -- |
| 81-02-12 | 1201 | 330 | -- | L10. | 232. | L10. | 194. | -- | -- | -- |
| 81-04-03 | 1410 | 330 | -- | L10. | 200. | L10. | 150. | -- | -- | -- |
| 81-04-08 | 1257 | 330 | -- | L10. | 185. | L10. | 164. | -- | -- | -- |
| 81-04-30 | 1400 | 330 | -- | 18. | 159. | 13. | 113. | -- | -- | -- |
| 81-08-25 | 0940 | 330 | -- | L10. | 160. | L10 | 120. | L.05 | L.001 | -- |
| 81-10-27 | 1030 | 330 | -- | L10. | 150. | L10. | 140. | L.05 | .001 | -- |
| 81-11-25 | 1050 | 330 | -- | L10. | 184. | L10 | 166. | L.05 | L.001 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NG0002
KOOTENAY RIVER AT HWY 3 CROSSING, WARDNER, BRITISH COLUMBIA LAT 49D 25M 17S LONG 115D 29M 10S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-24 | 0830 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-10-15 | 0815 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-11-21 | 1430 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-01-21 | 1330 | 330 | .0008 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-03-21 | 1400 | 330 | .0015 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-16 | 1430 | 331 | .0011 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-23 | 1400 | 330 | .0008 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-04-25 | 1320 | 330 | .0017 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-04-30 | 1400 | 331 | .0028 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-05-13 | 1430 | 331 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-05-21 | 1400 | 331 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-05-29 | 1245 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| | 1339 | 331 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-04 | 1323 | 331 | .0005 | .0004 | -- | -- | -- | -- | -- | -- |
| 80-06-12 | 1230 | 331 | .0008 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-18 | 1323 | 331 | .0016 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-25 | 1400 | 331 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-06-26 | 1210 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-03 | 1430 | 331 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-09 | 1430 | 331 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-16 | 1325 | 331 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-07-23 | 1430 | 331 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-24 | 1810 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| | 1815 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-03 | 1230 | 331 | .0003 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-08-07 | 1320 | 331 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-08-09 | 1037 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-13 | 1340 | 331 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-20 | 1400 | 331 | .0004 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-08-27 | 1440 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-09-16 | 1440 | 330 | .0006 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-26 | 1240 | 330 | .0007 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-10-15 | 1430 | 331 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-18 | 1144 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-24 | 1220 | 330 | .0007 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-11-26 | 1420 | 331 | .0008 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-11-27 | 1245 | 330 | .0008 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-12-03 | 1231 | 330 | .0012 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-01-13 | 1230 | 331 | .0015 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-04 | 1010 | 330 | .0011 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-12 | 1201 | 330 | .0021 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-04-03 | 1410 | 330 | .0010 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-08 | 1257 | 330 | .0015 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-30 | 1400 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-25 | 0940 | 330 | .0003 | .0001 | -- | .020 | -- | .004 | .10 | -- |
| 81-10-27 | 1030 | 330 | .0005 | .0001 | -- | .020 | -- | .002 | .22 | -- |
| 81-11-25 | 1050 | 330 | .0004 | .0001 | -- | .010 | -- | .006 | .09 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 008C08NG0002 LAT. 49D 25M 17S LONG. 115D 25M 10S
KOOTENAY RIVER AT HWY 3 CROSSING. WARDNER, BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-07-24 | 0830 | 330 | -- | -- | 226.70 | -- | -- | -- |
| 79-10-15 | 0815 | 330 | -- | -- | 56.42 | -- | -- | -- |
| 79-11-21 | 1430 | 330 | -- | -- | 34.45 | -- | -- | -- |
| 80-01-08 | 1200 | 330 | -- | -- | -- | -- | -- | 24.15 |
| 80-01-21 | 1330 | 330 | -- | -- | 31.85 | -- | -- | -- |
| 80-03-21 | 1400 | 330 | -- | -- | 34.98 | -- | -- | -- |
| 80-04-16 | 1430 | 331 | -- | -- | 67.50 | -- | -- | -- |
| 80-04-23 | 1400 | 330 | -- | -- | 191.10 | -- | -- | -- |
| 80-04-25 | 1320 | 330 | -- | -- | 356.00 | -- | -- | -- |
| 80-04-30 | 1400 | 331 | -- | -- | 918.00 | -- | -- | -- |
| 80-05-07 | 1200 | 330 | -- | -- | -- | -- | 959.00 | -- |
| 80-05-13 | 1430 | 331 | -- | -- | 624.30 | -- | -- | -- |
| 80-05-21 | 1400 | 331 | -- | -- | 756.00 | -- | -- | -- |
| 80-05-29 | 1245 | 330 | -- | -- | 656.20 | -- | -- | -- |
| | 1339 | 331 | -- | -- | 665.00 | -- | -- | -- |
| 80-06-04 | 1323 | 331 | -- | -- | 665.00 | -- | -- | -- |
| 80-06-12 | 1230 | 331 | -- | -- | 791.10 | -- | -- | -- |
| 80-06-18 | 1323 | 331 | -- | -- | 758.80 | -- | -- | -- |
| 80-06-25 | 1400 | 331 | -- | -- | 498.30 | -- | -- | -- |
| 80-06-26 | 1210 | 330 | -- | -- | 459.70 | -- | -- | -- |
| 80-07-03 | 1430 | 331 | -- | -- | 342.20 | -- | -- | -- |
| 80-07-09 | 1430 | 331 | -- | -- | 283.40 | -- | -- | -- |
| 80-07-16 | 1325 | 331 | -- | -- | 281.00 | -- | -- | -- |
| 80-07-23 | 1430 | 331 | -- | -- | 232.90 | -- | -- | -- |
| 80-07-24 | 1810 | 330 | -- | -- | 249.80 | -- | -- | -- |
| | 1815 | 330 | -- | -- | 249.80 | -- | -- | -- |
| 80-08-03 | 1230 | 331 | -- | -- | 179.90 | -- | -- | -- |
| 80-08-07 | 1320 | 331 | -- | -- | 168.70 | -- | -- | -- |
| 80-08-09 | 1037 | 330 | -- | -- | 163.10 | -- | -- | -- |
| 80-08-13 | 1340 | 331 | -- | -- | 174.20 | -- | -- | -- |
| 80-08-20 | 1400 | 331 | -- | -- | 172.10 | -- | -- | -- |
| 80-08-27 | 1440 | 330 | -- | -- | 120.00 | -- | -- | -- |
| 80-09-16 | 1440 | 330 | -- | -- | 119.30 | -- | -- | -- |
| 80-09-26 | 1240 | 330 | -- | -- | 111.20 | -- | -- | -- |
| 80-10-15 | 1430 | 331 | -- | -- | 95.30 | -- | -- | -- |
| 80-10-18 | 1144 | 330 | -- | -- | 87.59 | -- | -- | -- |
| 80-10-24 | 1220 | 330 | -- | -- | 82.62 | -- | -- | -- |
| 80-11-26 | 1420 | 331 | -- | -- | 52.75 | -- | -- | -- |
| 80-11-27 | 1245 | 330 | -- | -- | 58.94 | -- | -- | -- |
| 80-12-03 | 1231 | 330 | -- | -- | 46.90 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 205.26 | -- | -- |
| 81-01-13 | 1230 | 331 | -- | -- | 67.20 | -- | -- | -- |
| 81-02-04 | 1010 | 330 | -- | -- | 51.65 | -- | -- | -- |
| 81-02-11 | 1200 | 330 | -- | -- | -- | -- | -- | 38.83 |
| 81-02-12 | 1201 | 330 | -- | -- | 43.51 | -- | -- | -- |
| 81-04-03 | 1410 | 330 | -- | -- | 75.20 | -- | -- | -- |
| 81-04-08 | 1257 | 330 | -- | -- | 67.30 | -- | -- | -- |
| 81-04-30 | 1400 | 330 | -- | -- | 220.30 | -- | -- | -- |
| 81-05-27 | 1200 | 330 | -- | -- | -- | -- | 1322.00 | -- |
| 81-08-25 | 0940 | 330 | L.0005 | .001 | 200.60 | -- | -- | -- |
| 81-10-27 | 1030 | 330 | L.0005 | .001 | 88.30 | -- | -- | -- |
| 81-11-25 | 1050 | 330 | L.0005 | L.001 | 66.98 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 243.96 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NH0005 LAT. 49D 7M 0S LONG. 116D 34M 45S
KOOTENAY RIVER AT NICKS ISLAND. HIGHWAY 3 ROAD BRIDGE. 5KM WNW OF CRESTON BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-12 | 1410 | 330 | -- | 16.1 | 21.4 | -- | 8.1 | -- | 215 | 82 |
| 79-10-02 | 1440 | 330 | -- | 15.9 | 21.1 | -- | 8.1 | -- | 217 | .90 |
| 79-12-20 | 1600 | 330 | 6.5 | 5.0 | 18.4 | -- | 8.2 | -- | 234 | 2.20 |
| 80-01-03 | 1450 | 330 | .5 | 3.4 | 20.3 | -- | 8.1 | -- | 219 | 1.60 |
| 80-02-01 | 1350 | 330 | -- | 0 | 20.2 | -- | 8.2 | -- | 255 | 6.50 |
| 80-04-10 | 1100 | 330 | 3.5 | 5.0 | 21.8 | -- | 8.1 | -- | 189 | 1.90 |
| 80-04-14 | 1000 | 330 | 12.0 | 8.0 | 18.3 | 8.4 | 8.1 | 200 | 195 | 3.30 |
| 80-06-04 | 2015 | 330 | 12.3 | 10.0 | 20.5 | -- | 7.7 | -- | 100 | 2.70 |
| 80-07-04 | 1510 | 330 | -- | 16.7 | 21.7 | -- | 7.9 | -- | 177 | .90 |
| 80-08-06 | 1019 | 330 | 20.0 | 16.0 | 24.5 | 7.3 | 8.2 | 195 | 208 | .38 |
| 80-08-15 | 1404 | 330 | 23.0 | 18.0 | 19.4 | -- | 7.8 | -- | 212 | .19 |
| 80-09-25 | 0700 | 330 | 2.0 | 13.0 | 18.4 | 8.2 | 8.0 | 160 | 201 | .69 |
| 80-10-03 | 1600 | 330 | 20.5 | 14.0 | 22.4 | -- | 8.1 | -- | 205 | .88 |
| 80-10-20 | 1014 | 330 | 13.0 | 12.0 | 21.3 | 8.8 | 8.2 | 260 | 234 | .68 |
| 80-11-05 | 1439 | 330 | 10.5 | 8.8 | 21.0 | -- | 8.1 | -- | 227 | .51 |
| 80-11-25 | 1410 | 330 | 1.5 | 3.8 | 22.7 | -- | 8.0 | -- | 225 | .40 |
| 80-12-23 | 1350 | 330 | 3.0 | 4.5 | 21.5 | -- | 8.0 | -- | 230 | .40 |
| 81-02-13 | 1008 | 330 | 5.0 | 2.5 | 16.4 | 8.4 | 8.1 | 240 | 243 | .32 |
| | 1650 | 330 | 2.0 | 1.5 | 21.5 | -- | 8.0 | -- | 243 | .30 |
| 81-02-27 | 1640 | 330 | -2.0 | -- | 20.4 | -- | 7.9 | -- | 212 | 2.80 |
| 81-04-06 | 1707 | 330 | 8.0 | 8.0 | 18.7 | 8.5 | 8.0 | 160 | 164 | 98 |
| 81-05-08 | 1545 | 330 | -- | -- | 22.4 | -- | 7.6 | -- | 88 | 5.00 |
| 81-06-25 | 1520 | 330 | 27.0 | 12.5 | 18.9 | -- | 7.6 | -- | 130 | 2.80 |
| 81-07-13 | 1532 | 330 | -- | 14.0 | 15.5 | -- | 8.0 | -- | 192 | 1.80 |
| 81-08-19 | 1300 | 330 | 24.5 | 19.5 | 19.6 | 7.9 | 8.3 | 220 | 211 | .50 |
| 81-08-20 | 1515 | 330 | 24.5 | 18.0 | 19.1 | -- | 8.2 | -- | 207 | .40 |
| 81-09-15 | 1541 | 330 | 23.0 | 16.0 | 22.2 | -- | 7.9 | -- | 211 | .40 |
| 81-10-05 | 1716 | 330 | 8.0 | 10.0 | 19.7 | -- | 7.9 | -- | 199 | .30 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-12 | 1410 | 330 | L5. | 0 | 92.2 | 109.0 | 30.2 | 8.2 | .5 | 2.5 |
| 79-10-02 | 1440 | 330 | 5. | .0 | 95.5 | 113.0 | 32.3 | 7.9 | .5 | 2.4 |
| 79-12-20 | 1600 | 330 | 5. | 0 | 101.0 | 117.0 | 33.0 | 8.4 | .5 | 2.9 |
| 80-01-03 | 1450 | 330 | 5. | 0 | 93.1 | 109.0 | 30.3 | 8.1 | .5 | 3.0 |
| 80-02-01 | 1350 | 330 | 10. | 0 | 108.0 | 127.0 | 35.8 | 9.1 | .5 | 3.4 |
| 80-04-10 | 1100 | 330 | L5. | 0 | 92.7 | 108.0 | 30.9 | 7.5 | .5 | 3.3 |
| 80-04-14 | 1000 | 330 | 5. | 0 | 83.5 | 96.7 | 28.0 | 6.5 | .8 | 3.1 |
| 80-06-04 | 2015 | 330 | 25. | 0 | 42.3 | 47.8 | 15.5 | 2.2 | .5 | 1.8 |
| 80-07-04 | 1510 | 330 | 15. | 0 | 73.6 | 84.6 | 25.2 | 5.3 | .4 | 2.3 |
| 80-08-06 | 1019 | 330 | 10. | 0 | 86.9 | 100.0 | 29.1 | 6.6 | .5 | 2.1 |
| 80-08-15 | 1404 | 330 | 10. | 0 | 89.8 | 105.0 | 28.8 | 8.0 | .6 | 2.4 |
| 80-09-25 | 0700 | 330 | 10. | 0 | 88.2 | 100.0 | 29.0 | 6.7 | .5 | 2.2 |
| 80-10-03 | 1600 | 330 | 5. | 0 | 89.6 | 103.0 | 29.3 | 7.2 | .4 | 2.2 |
| 80-10-20 | 1014 | 330 | 10. | .0 | 94.6 | 111.0 | 31.9 | 7.6 | .7 | 2.3 |
| 80-11-05 | 1439 | 330 | 10. | .0 | 93.3 | 110.0 | 31.4 | 7.7 | .4 | 2.5 |
| 80-11-25 | 1410 | 330 | 10. | .0 | 91.3 | 111.0 | 31.3 | 8.0 | .5 | 2.5 |
| 80-12-23 | 1350 | 330 | 10. | .0 | 96.1 | 114.0 | 31.3 | 8.7 | .4 | 2.9 |
| 81-02-13 | 1008 | 330 | 10. | .0 | 101.0 | 122.0 | 32.5 | 9.9 | .5 | 2.9 |
| | 1650 | 330 | 10. | .0 | 99.1 | 122.0 | 33.4 | 9.4 | .5 | 3.0 |
| 81-02-27 | 1640 | 330 | 15. | .0 | 86.3 | 104.0 | 28.8 | 7.8 | .5 | 2.8 |
| 81-04-06 | 1707 | 330 | 15. | .0 | 69.3 | 76.1 | 22.5 | 4.8 | .8 | 2.7 |
| 81-05-08 | 1545 | 330 | 20. | .0 | 35.7 | 39.4 | 11.2 | 2.8 | .4 | 1.6 |
| 81-06-25 | 1520 | 330 | L5. | 0 | 54.3 | 61.3 | 17.6 | 4.2 | .3 | 1.8 |
| 81-07-13 | 1532 | 330 | 10. | .0 | 80.7 | 92.9 | 25.8 | 6.9 | .3 | 1.9 |
| 81-08-19 | 1300 | 330 | 10. | .0 | 91.0 | 103.0 | 28.3 | 7.9 | .5 | 2.1 |
| 81-08-20 | 1515 | 330 | 10. | .0 | 91.0 | 103.0 | 26.7 | 8.8 | .5 | 2.2 |
| 81-09-15 | 1541 | 330 | 10. | .0 | 89.0 | 104.0 | 28.3 | 8.1 | .6 | 2.1 |
| 81-10-05 | 1716 | 330 | 10. | .0 | 84.8 | 99.3 | 25.9 | 8.4 | .4 | 2.0 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NH0005 LAT 49D 7M 0S LONG 118D 34M 45S
KOOTENAY RIVER AT NICKS ISLAND. HIGHWAY 3 ROAD BRIDGE, 5KM WNW OF CRESTON, BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-12 | 1410 | 330 | 2.3 | .082 | 4.1 | 15.6 | L.002 | -- | -- | -- |
| 79-10-02 | 1440 | 330 | 2.7 | .120 | 3.4 | 17.1 | L.002 | -- | -- | -- |
| 79-12-20 | 1600 | 330 | 2.9 | .120 | 5.1 | 20.4 | .099 | -- | -- | -- |
| 80-01-03 | 1450 | 330 | 2.8 | .110 | 5.8 | 18.2 | .092 | -- | -- | -- |
| 80-02-01 | 1350 | 330 | 3.5 | .132 | 4.5 | 21.0 | .090 | -- | -- | -- |
| 80-04-10 | 1100 | 330 | 1.3 | .120 | 6.1 | 16.5 | .049 | -- | -- | -- |
| 80-04-14 | 1000 | 330 | 1.9 | .110 | 6.4 | 14.5 | .020 | -- | -- | -- |
| 80-06-04 | 2015 | 330 | 1.2 | .052 | 7.1 | 6.5 | .002 | -- | -- | -- |
| 80-07-04 | 1510 | 330 | 1.9 | .085 | 5.6 | 11.8 | .002 | -- | -- | -- |
| 80-08-06 | 1019 | 330 | 2.1 | .092 | 4.3 | 13.5 | .016 | -- | -- | -- |
| 80-08-15 | 1404 | 330 | 2.6 | .094 | 4.1 | 13.5 | .007 | -- | -- | -- |
| 80-09-25 | 0700 | 330 | 2.0 | .080 | 5.1 | 15.1 | .012 | -- | -- | -- |
| 80-10-03 | 1600 | 330 | 1.9 | .070 | 4.6 | 15.4 | .010 | -- | -- | -- |
| 80-10-20 | 1014 | 330 | 1.9 | .090 | 4.1 | 15.8 | .116 | -- | -- | -- |
| 80-11-05 | 1439 | 330 | 2.5 | .100 | 4.8 | 17.0 | .074 | -- | -- | -- |
| 80-11-25 | 1410 | 330 | 2.6 | .120 | 5.0 | 17.0 | .096 | -- | -- | -- |
| 80-12-23 | 1350 | 330 | 3.1 | .110 | 4.9 | 17.7 | .089 | -- | -- | -- |
| 81-02-13 | 1008 | 330 | 2.9 | .110 | 4.8 | 18.0 | .116 | -- | -- | -- |
| | 1650 | 330 | 3.0 | .100 | 5.9 | 19.4 | .103 | -- | -- | -- |
| 81-02-27 | 1640 | 330 | 2.4 | .090 | 6.6 | 14.8 | .204 | -- | -- | -- |
| 81-04-06 | 1707 | 330 | 1.7 | .080 | 8.2 | 9.7 | .055 | -- | -- | -- |
| 81-05-08 | 1545 | 330 | .7 | .070 | 8.4 | 4.6 | .034 | -- | -- | -- |
| 81-06-25 | 1520 | 330 | 1.0 | .050 | 7.8 | 7.7 | L.002 | -- | -- | -- |
| 81-07-13 | 1532 | 330 | 1.5 | .080 | 6.0 | 11.2 | .013 | -- | -- | -- |
| 81-08-19 | 1300 | 330 | 2.1 | .080 | 5.1 | 12.6 | .032 | 138 | 24.1 | L.3 |
| 81-08-20 | 1515 | 330 | 1.5 | .070 | 5.2 | 12.3 | .018 | 100 | 23.2 | 1.6 |
| 81-09-15 | 1541 | 330 | 1.6 | .090 | 5.0 | 12.5 | .055 | 187 | 24.0 | L.6 |
| 81-10-05 | 1716 | 330 | 1.4 | .080 | 5.1 | 12.4 | .266 | 490 | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29309P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-12 | 1410 | 330 | -- | L10. | 134. | L10. | 100. | -- | -- | -- |
| 79-10-02 | 1440 | 330 | -- | L10. | 145. | L10. | 125. | -- | -- | -- |
| 79-12-20 | 1600 | 330 | -- | L10. | 142. | L10. | 111. | -- | -- | -- |
| 80-01-03 | 1450 | 330 | -- | L10. | 133. | L10. | 88. | -- | -- | -- |
| 80-02-01 | 1350 | 330 | -- | 20. | 155. | 15. | 126. | -- | -- | -- |
| 80-04-10 | 1100 | 330 | -- | L10. | 135. | L10. | 87. | -- | -- | -- |
| 80-04-14 | 1000 | 330 | -- | L10. | 128. | L10. | 89. | -- | -- | -- |
| 80-06-04 | 2015 | 330 | -- | L10. | 64. | L10. | 33. | -- | -- | -- |
| 80-07-04 | 1510 | 330 | -- | L10. | 120. | L10. | 91. | -- | -- | -- |
| 80-08-06 | 1019 | 330 | -- | L10. | 129. | L10. | 113. | -- | -- | -- |
| 80-08-15 | 1404 | 330 | -- | L10. | 128. | L10. | 96. | -- | -- | -- |
| 80-09-25 | 0700 | 330 | -- | L10. | 135. | L10. | 95. | -- | -- | -- |
| 80-10-03 | 1600 | 330 | -- | L10. | 120. | L10. | 94. | -- | -- | -- |
| 80-10-20 | 1014 | 330 | -- | L10. | 120. | L10. | 100. | -- | -- | -- |
| 80-11-05 | 1439 | 330 | -- | L10. | 180. | L10. | 110. | -- | -- | -- |
| 80-11-25 | 1410 | 330 | -- | L10. | 115. | L10. | 106. | -- | -- | -- |
| 80-12-23 | 1350 | 330 | -- | L10. | 134. | L10. | 117. | -- | -- | -- |
| 81-02-13 | 1008 | 330 | -- | L10. | 141. | L10. | 128. | -- | -- | -- |
| | 1650 | 330 | -- | L10. | 136. | L10. | 117. | -- | -- | -- |
| 81-02-27 | 1640 | 330 | -- | 22. | 160. | 15. | 81. | -- | -- | -- |
| 81-04-06 | 1707 | 330 | -- | L10. | 103. | L10. | 81. | -- | -- | -- |
| 81-05-08 | 1545 | 330 | -- | 18. | 87. | 16. | 56. | -- | -- | -- |
| 81-06-25 | 1520 | 330 | -- | L10. | 79. | L10. | 56. | -- | -- | -- |
| 81-07-13 | 1532 | 330 | -- | 10. | 119. | L10. | 98. | -- | -- | -- |
| 81-08-19 | 1300 | 330 | -- | L10. | 140. | L10. | 110. | L.05 | L.001 | -- |
| 81-08-20 | 1515 | 330 | -- | L10. | 180. | L10. | 83. | L.05 | L.001 | -- |
| 81-09-15 | 1541 | 330 | -- | L10. | 110. | L10. | 100. | L.05 | L.001 | -- |
| 81-10-05 | 1716 | 330 | -- | L10. | 130. | L10. | 120. | L.05 | L.001 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08NB008
KOOTENAY RIVER AT WICKS ISLAND. HIGHWAY 3 ROAD BRIDGE. 5KM WNW OF CRESTON. BRITISH COLUMBIA. LAT. 49D 7M 0S LONG. 116D 34M 45S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-12 | 1410 | 330 | .0010 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-10-02 | 1440 | 330 | .0008 | .0002 | -- | -- | -- | -- | -- | -- |
| 79-12-20 | 1600 | 330 | .0006 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-01-03 | 1450 | 330 | .0006 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-02-01 | 1350 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-04-10 | 1100 | 330 | .0007 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-04-14 | 1000 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-04 | 2015 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-07-04 | 1510 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-06 | 1019 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-15 | 1404 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-25 | 0700 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-03 | 1600 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-20 | 1014 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-11-05 | 1439 | 330 | .0003 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-11-25 | 1410 | 330 | .0003 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-12-23 | 1350 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-13 | 1008 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| | 1650 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-27 | 1640 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1707 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-08 | 1545 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-06-25 | 1520 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-07-13 | 1532 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-08-19 | 1300 | 330 | .0005 | .0002 | -- | 020 | -- | 002 | 0E | -- |
| 81-08-20 | 1515 | 330 | .0006 | .0002 | -- | 020 | -- | 002 | 06 | -- |
| 81-09-15 | 1541 | 330 | .0006 | .0001 | -- | 020 | -- | 005 | 07 | -- |
| 81-10-05 | 1718 | 330 | .0004 | .0001 | -- | L.010 | -- | 003 | 0E | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-09-12 | 1410 | 330 | -- | -- | 240.93 | -- | -- | -- |
| 79-10-02 | 1440 | 330 | -- | -- | 253.73 | -- | -- | -- |
| 79-12-20 | 1600 | 330 | -- | -- | 627.30 | -- | -- | -- |
| 80-01-03 | 1450 | 330 | -- | -- | 169.63 | -- | -- | -- |
| 80-02-01 | 1350 | 330 | -- | -- | 526.27 | -- | -- | -- |
| 80-03-26 | 1200 | 330 | -- | -- | -- | -- | -- | 137.71 |
| 80-04-10 | 1100 | 330 | -- | -- | 157.10 | -- | -- | -- |
| 80-04-14 | 1000 | 330 | -- | -- | 189.50 | -- | -- | -- |
| 80-04-29 | 1200 | 330 | -- | -- | -- | -- | 1287.00 | -- |
| 80-06-04 | 2015 | 330 | -- | -- | 397.20 | -- | -- | -- |
| 80-07-04 | 1510 | 330 | -- | -- | 215.10 | -- | -- | -- |
| 80-08-06 | 1019 | 330 | -- | -- | 281.47 | -- | -- | -- |
| 80-08-15 | 1404 | 330 | -- | -- | 252.27 | -- | -- | -- |
| 80-09-25 | 0700 | 330 | -- | -- | 214.41 | -- | -- | -- |
| 80-10-03 | 1600 | 330 | -- | -- | 400.80 | -- | -- | -- |
| 80-10-20 | 1014 | 330 | -- | -- | 551.43 | -- | -- | -- |
| 80-11-05 | 1439 | 330 | -- | -- | 595.83 | -- | -- | -- |
| 80-11-25 | 1410 | 330 | -- | -- | 559.41 | -- | -- | -- |
| 80-12-23 | 1350 | 330 | -- | -- | 368.77 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 408.23 | -- | -- |
| 81-02-13 | 1008 | 330 | -- | -- | 612.77 | -- | -- | -- |
| | 1650 | 330 | -- | -- | 612.77 | -- | -- | -- |
| 81-02-27 | 1640 | 330 | -- | -- | 546.20 | -- | -- | -- |
| 81-04-06 | 1707 | 330 | -- | -- | 207.20 | -- | -- | -- |
| 81-05-08 | 1545 | 330 | -- | -- | 448.80 | -- | -- | -- |
| 81-06-25 | 1520 | 330 | -- | -- | 1020.40 | -- | -- | -- |
| 81-07-08 | 1200 | 330 | -- | -- | -- | -- | 1328.20 | -- |
| 81-07-13 | 1532 | 330 | -- | -- | 996.30 | -- | -- | -- |
| 81-08-19 | 1300 | 330 | L.0005 | 003 | 476.71 | -- | -- | -- |
| 81-08-20 | 1515 | 330 | L.0005 | L.001 | -- | -- | -- | -- |
| 81-09-15 | 1541 | 330 | L.0005 | L.001 | 323.48 | -- | -- | -- |
| 81-09-21 | 1200 | 330 | -- | -- | -- | -- | -- | 163.00 |
| 81-10-05 | 1718 | 330 | .0011 | L.001 | 181.58 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 549.30 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08WH0010
MOYIE RIVER AT HWY 95 BRIDGE. 0.5 KM NORTH OF U.S. BORDER. LAT. 49D 00M 16S LONG. 116D 10M 46S KINGSGATE. BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 0850 | 330 | -- | 15.5 | 20.7 | -- | 7.5 | -- | 44. | 72 |
| 79-10-01 | 0910 | 330 | -- | 7.7 | 20.6 | -- | 7.5 | -- | 52. | 3.60 |
| 79-11-06 | 1200 | 330 | 2.0 | 2.0 | 20.3 | -- | 7.2 | -- | 47. | .55 |
| 80-02-08 | 1330 | 330 | -- | .0 | 20.2 | -- | 7.5 | -- | 52. | .58 |
| 80-04-14 | 0945 | 330 | 17.5 | 5.5 | 18.7 | 8.1 | 7.3 | L50. | 45. | 3.00 |
| 80-05-19 | 1221 | 330 | 19.0 | 9.5 | 21.0 | -- | 7.2 | -- | 31. | 1.20 |
| 80-08-06 | 1124 | 330 | 23.0 | 14.0 | 24.5 | 8.0 | 7.4 | 250. | 48. | 22 |
| 80-08-08 | 1315 | 330 | 20.0 | 17.( | 24.6 | -- | 7.6 | -- | 47. | .33 |
| 80-09-10 | 1015 | 330 | 15.0 | 12.0 | 21.6 | -- | 7.3 | -- | 51. | 44 |
| 80-10-02 | 1210 | 330 | 17.0 | 10.0 | 22.3 | -- | 8.1 | -- | 49. | 83 |
| 80-10-20 | 0919 | 330 | 8.0 | 7.0 | 21.3 | 8.2 | 7.5 | 60. | 53. | 86 |
| 80-11-03 | 1350 | 330 | 10.0 | 5.5 | 21.0 | -- | 7.3 | -- | 43. | .86 |
| 81-01-16 | 1220 | 330 | -- | -- | 19.3 | -- | 6.9 | -- | 47. | 1.00 |
| 81-02-10 | 1420 | 330 | -10.0 | -- | 20.3 | -- | 7.1 | -- | 50. | 33 |
| 81-02-13 | 0915 | 330 | -- | 1.5 | 19.9 | 6.3 | 7.2 | L50. | 46. | 38 |
| 81-04-10 | 1345 | 330 | 3.0 | 4.0 | 18.3 | -- | 7.4 | -- | 45. | 44 |
| | 1424 | 330 | 8.0 | 6.0 | 18.6 | 8.8 | 7.4 | 70. | 47. | 34 |
| 81-06-12 | 1145 | 330 | 11.0 | 6.0 | 22.8 | -- | 7.2 | -- | 35. | 1.60 |
| 81-08-19 | 1430 | 330 | 28.0 | 20.5 | 19.8 | 7.5 | 7.6 | 50. | 47. | 40 |
| 81-09-25 | 1340 | 330 | 7.5 | 9.0 | 21.8 | -- | 7.2 | -- | 50. | 40 |
| 81-11-03 | 1400 | 330 | 10.0 | 5.0 | 21.6 | -- | 7.3 | -- | 47. | 43 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 0850 | 330 | L5. | .0 | 18.0 | 18.1 | 4.5 | 1.7 | .5 | 1.7 |
| 79-10-01 | 0910 | 330 | L5. | .0 | 21.7 | 24.1 | 5.9 | 2.3 | .7 | 2.2 |
| 79-11-06 | 1200 | 330 | L5. | .0 | 20.5 | 21.5 | 5.2 | 2.1 | .6 | 2.2 |
| 80-02-08 | 1330 | 330 | L5. | .0 | 20.2 | 19.7 | 5.8 | 1.3 | .5 | 2.1 |
| 80-04-14 | 0945 | 330 | 10. | .0 | 17.0 | 17.8 | 5.0 | 1.3 | .8 | 2.2 |
| 80-05-19 | 1221 | 330 | 25. | .0 | 10.5 | 12.6 | 4.4 | .4 | .4 | 1.1 |
| 80-08-06 | 1124 | 330 | 10. | .0 | 16.0 | 17.0 | 4.8 | 1.2 | .8 | 1.8 |
| 80-08-08 | 1315 | 330 | 10. | .0 | 17.0 | 18.0 | 4.8 | 1.5 | .6 | 1.8 |
| 80-09-10 | 1015 | 330 | 10. | .0 | 18.4 | 19.2 | 4.8 | 1.8 | .6 | 1.8 |
| 80-10-02 | 1210 | 330 | 10. | .0 | 18.6 | 18.4 | 3.8 | 1.7 | .7 | 1.9 |
| 80-10-20 | 0919 | 330 | 10 | .0 | 19.1 | 17.8 | 5.3 | 1.1 | .9 | 1.6 |
| 80-11-03 | 1350 | 330 | 20. | .0 | 16.0 | 15.6 | 4.1 | 1.3 | .5 | 1.7 |
| 81-01-16 | 1220 | 330 | 25. | .0 | 18.0 | 20.2 | 5.1 | 1.8 | .7 | 1.8 |
| 81-02-10 | 1420 | 330 | 10. | .0 | 20.0 | 25.4 | 6.1 | 2.5 | .6 | 2.0 |
| 81-02-13 | 0915 | 330 | 10 | .0 | 17.8 | 21.6 | 5.0 | 2.2 | .6 | 1.7 |
| 81-04-10 | 1345 | 330 | 15 | .0 | 16.4 | 17.2 | 4.9 | 1.2 | .5 | 1.8 |
| | 1424 | 330 | 15 | .0 | 18.4 | 20.5 | 4.7 | 2.1 | .8 | 1.9 |
| 81-06-12 | 1145 | 330 | 25 | .0 | 12.3 | 13.9 | 3.9 | 1.0 | .6 | 1.3 |
| 81-08-19 | 1430 | 330 | 15 | 0 | 16.6 | 23.8 | 3.1 | 3.9 | .5 | 1.7 |
| 81-09-25 | 1340 | 330 | 10. | .0 | 16.5 | 19.9 | 3.1 | 2.9 | .5 | 2.0 |
| 81-11-03 | 1400 | 330 | 10 | .0 | 18.3 | 23.8 | 5.5 | 2.4 | .5 | 1.8 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 0850 | 330 | .8 | .068 | 8.8 | 2.7 | .013 | -- | -- | -- |
| 79-10-01 | 0910 | 330 | 1.1 | .571 | 11.6 | 3.1 | .038 | -- | -- | -- |
| 79-11-06 | 1200 | 330 | .9 | .059 | 11.2 | 9.0 | .038 | -- | -- | -- |
| 80-02-08 | 1330 | 330 | 1.1 | L.050 | 10.6 | 3.7 | .073 | -- | -- | -- |
| 80-04-14 | 0945 | 330 | 1.1 | .050 | 17.0 | 4.5 | .064 | -- | -- | -- |
| 80-05-19 | 1221 | 330 | .2 | L.050 | 7.8 | 2.3 | .011 | -- | -- | -- |
| 80-08-06 | 1124 | 330 | 1.0 | L.050 | 9.6 | 2.6 | .019 | -- | -- | -- |
| 80-08-08 | 1315 | 330 | .6 | L.050 | 9.7 | 2.8 | .016 | -- | -- | -- |
| 80-09-10 | 1015 | 330 | .7 | .046 | 10.1 | 2.8 | .015 | -- | -- | -- |
| 80-10-02 | 1210 | 330 | 1.1 | .020 | 10.4 | 2.6 | .008 | -- | -- | -- |
| 80-10-20 | 0919 | 330 | 1.1 | .040 | 10.4 | 2.7 | .090 | -- | -- | -- |
| 80-11-03 | 1350 | 330 | .8 | .( | 10.4 | 3.1 | .009 | -- | -- | -- |
| 81-01-16 | 1220 | 330 | 1.0 | L.050 | 9.7 | 3.0 | .040 | -- | -- | -- |
| 81-02-10 | 1420 | 330 | .8 | .050 | 10.6 | 3.2 | .042 | -- | -- | -- |
| 81-02-13 | 0915 | 330 | .8 | .050 | 9.7 | 3.1 | .051 | -- | -- | -- |
| 81-04-10 | 1345 | 330 | .8 | L.050 | 10.2 | 2.7 | .025 | -- | -- | -- |
| | 1424 | 330 | 1.1 | L.050 | 10.2 | 3.0 | .071 | -- | -- | -- |
| 81-06-12 | 1145 | 330 | .4 | .040 | 9.3 | 2.8 | .011 | -- | -- | -- |
| 81-08-19 | 1430 | 330 | .7 | .030 | 9.6 | 2.3 | .010 | -- | -- | -- |
| 81-09-25 | 1340 | 330 | .8 | .040 | 10.7 | 2.3 | .035 | .077 | -- | -- |
| 81-11-03 | 1400 | 330 | .7 | .490 | 10.0 | 2.6 | .056 | .122 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08NB008NW0010
MOYIE RIVER AT HWY 95 BRIDGE. 0.5 KM NORTH OF U.S. BORDER. KINGSGATE. BRITISH COLUMBIA
LAT. 49D 0M 16S LONG. 116D 10M 46S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 0850 | 330 | -- | L10. | 42. | L10. | 34. | -- | -- | -- |
| 79-10-01 | 0910 | 330 | -- | L10 | 45. | L10. | 33 | -- | -- | -- |
| 79-11-06 | 1200 | 330 | -- | L10. | 38. | L10. | 35. | -- | -- | -- |
| 80-02-08 | 1330 | 330 | -- | L10. | 44. | L10. | 39 | -- | -- | -- |
| 80-04-14 | 0945 | 330 | -- | L10. | 45. | L10. | 18. | -- | -- | -- |
| 80-05-19 | 1221 | 330 | -- | L10. | 35. | L10. | 18. | -- | -- | -- |
| 80-06-06 | 1124 | 330 | -- | L10. | 42. | L10. | 29. | -- | -- | -- |
| 80-08-08 | 1315 | 330 | -- | L10 | 39. | L10. | 31 | -- | -- | -- |
| 80-09-10 | 1015 | 330 | -- | L10 | 50. | L10. | 35. | -- | -- | -- |
| 80-10-02 | 1210 | 330 | -- | L10. | 36. | L10 | 22 | -- | -- | -- |
| 80-10-20 | 0919 | 330 | -- | L10. | 35. | L10. | 28 | -- | -- | -- |
| 80-11-03 | 1350 | 330 | -- | L10. | 48. | L10. | 21 | -- | -- | -- |
| 81-01-16 | 1220 | 330 | -- | 76. | 35. | 72 | 30 | -- | -- | -- |
| 81-02-10 | 1420 | 330 | -- | L10. | 47. | L10. | 33 | -- | -- | -- |
| 81-02-13 | 0915 | 330 | -- | L10. | 37. | L10. | 29 | -- | -- | -- |
| 81-04-10 | 1345 | 330 | -- | L10. | 27. | L10. | 15. | -- | -- | -- |
| | 1424 | 330 | -- | L10. | 39. | L10 | 33 | -- | -- | -- |
| 81-05-12 | 1145 | 330 | -- | 15. | 41. | 10 | 21. | -- | -- | -- |
| 81-08-19 | 1430 | 330 | -- | L10 | 51 | L10. | 28 | L 05 | L 001 | -- |
| 81-09-25 | 1340 | 330 | -- | L10 | 38. | L10. | 27 | L 05 | L 001 | -- |
| 81-11-03 | 1400 | 330 | -- | L10. | 44 | L10. | 26 | L 05 | L 001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 0850 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 79-10-01 | 0910 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 79-11-06 | 1200 | 330 | 0004 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-02-08 | 1330 | 330 | 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-04-14 | 0945 | 330 | 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-05-19 | 1221 | 330 | 0001 | 0001 | -- | -- | -- | -- | -- | -- |
| 80-06-06 | 1124 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-08-08 | 1315 | 330 | 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-09-10 | 1015 | 330 | 0001 | 0001 | -- | -- | -- | -- | -- | -- |
| 80-10-02 | 1210 | 330 | 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-10-20 | 0919 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 80-11-03 | 1350 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 81-01-16 | 1220 | 330 | 0005 | L 0001 | -- | -- | -- | -- | -- | -- |
| 81-02-10 | 1420 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 81-02-13 | 0915 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 81-04-10 | 1345 | 330 | 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| | 1424 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 81-05-12 | 1145 | 330 | L 0001 | L 0001 | -- | -- | -- | -- | -- | -- |
| 81-08-19 | 1430 | 330 | 0002 | L 0001 | -- | -- | -- | 004 | 06 | -- |
| 81-09-25 | 1340 | 330 | 0001 | L 0001 | -- | L 010 | -- | 002 | 07 | -- |
| 81-11-03 | 1400 | 330 | L 0001 | L 0001 | -- | L 010 | -- | 260 | -- | 047 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NH0010
MOYIE RIVER AT HWY 95 BRIDGE. 0.5 KM NORTH OF U.S. BORDER. LAT. 49D 0M 18S LONG 116D 10M 46S KINGSGATE, BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 0850 | 330 | -- | -- | 4.33 | -- | -- | -- |
| 79-10-01 | 0910 | 330 | -- | -- | .99 | -- | -- | -- |
| 79-11-06 | 1200 | 330 | -- | -- | 1.39 | -- | -- | -- |
| 80-01-28 | 1200 | 330 | -- | -- | -- | -- | -- | 1.61 |
| 80-02-08 | 1330 | 330 | -- | -- | 2.27 | -- | -- | -- |
| 80-04-14 | 0945 | 330 | -- | -- | 10.30 | -- | -- | -- |
| 80-04-29 | 1200 | 330 | -- | -- | -- | -- | 163.00 | -- |
| 80-05-19 | 1221 | 330 | -- | -- | 65.70 | -- | -- | -- |
| 80-08-06 | 1124 | 330 | -- | -- | 3.51 | -- | -- | -- |
| 80-08-08 | 1315 | 330 | -- | -- | 3.26 | -- | -- | -- |
| 80-09-10 | 1015 | 330 | -- | -- | 3.06 | -- | -- | -- |
| 80-10-02 | 1210 | 330 | -- | -- | 2.72 | -- | -- | -- |
| 80-10-20 | 0915 | 330 | -- | -- | 2.18 | -- | -- | -- |
| 80-11-03 | 1350 | 330 | -- | -- | 3.68 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 16.20 | -- | -- |
| 81-01-16 | 1220 | 330 | -- | -- | 9.91 | -- | -- | -- |
| 81-02-10 | 1420 | 330 | -- | -- | 3.11 | -- | -- | -- |
| 81-02-13 | 0915 | 330 | -- | -- | 3.82 | -- | -- | -- |
| 81-04-10 | 1345 | 330 | -- | -- | 14.00 | -- | -- | -- |
| | 1424 | 330 | -- | -- | 14.00 | -- | -- | -- |
| 81-05-12 | 1145 | 330 | -- | -- | 72.50 | -- | -- | -- |
| 81-05-26 | 1200 | 330 | -- | -- | -- | -- | 144.00 | -- |
| 81-08-19 | 1430 | 330 | L.0005 | .002 | 6.34 | -- | -- | -- |
| 81-09-25 | 1340 | 330 | L.0005 | L.001 | 3.03 | -- | -- | -- |
| 81-11-03 | 1400 | 330 | L.0005 | .001 | 3.94 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 24.30 | -- | 2.32 |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08EC08HK0002
ELK RIVER AT OLD HWY BRIDGE. BM 2552 3.3 KM SSW OF CONFLUENCE WITH WIGWAM RIVER BRITISH COLUMBIA

LAT 49D 12M 55S LONG 115D 0M 33S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C | 02061L TEMP. WATER DEG. C | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT USIE/CM | 02041L SPECIFIC CONDUCT USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-08-03 | 1240 | 330 | -- | 15.0 | 21.5 | -- | 8.4 | -- | 292 | 5.40 |
| 79-09-27 | 0915 | 330 | -- | 10.2 | 19.8 | -- | 8.2 | -- | 312 | .35 |
| 79-11-06 | 1055 | 330 | -- | 1.0 | 20.5 | -- | 8.3 | -- | 322 | .76 |
| 80-01-04 | 1020 | 330 | 3.0 | .5 | 20.2 | -- | 8.4 | -- | 332 | 1.20 |
| 80-02-27 | 1315 | 330 | 6.0 | .0 | 19.7 | -- | 8.3 | -- | 338 | 64.00 |
| 80-05-05 | 1310 | 330 | 23.0 | 7.0 | 22.2 | -- | 8.1 | -- | 201 | 37.00 |
| 80-06-03 | 1110 | 330 | 8.0 | 5.5 | 19.9 | -- | 8.0 | -- | 228 | 16.00 |
| 80-07-08 | 1150 | 330 | 28.5 | 14.0 | 21.4 | -- | 8.4 | -- | 274 | 1.80 |
| 80-11-05 | 1440 | 330 | 10.5 | 6.5 | 22.2 | -- | 8.2 | -- | 316 | 3.00 |
| 81-01-09 | 1045 | 330 | 1.5 | 1.0 | 20.4 | -- | 8.1 | -- | 290 | .35 |
| 81-04-03 | 1610 | 330 | 4.5 | 4.0 | 18.7 | -- | 8.4 | -- | 313 | 1.00 |
| 81-05-01 | 1130 | 330 | 17.5 | 7.5 | 17.3 | -- | 7.9 | -- | 217 | 105.00 |
| 81-05-29 | 1310 | 330 | 18.5 | 8.0 | 22.1 | -- | 8.2 | -- | 225 | 111.00 |
| 81-08-14 | 1055 | 330 | 23.0 | 15.0 | 21.4 | -- | 8.5 | -- | 278 | 1.00 |
| 81-10-14 | 1330 | 330 | 11.0 | 5.0 | 18.8 | -- | 8.3 | -- | 320 | .60 |
| 81-12-31 | 1215 | 330 | -11.0 | .0 | 22.2 | -- | 8.0 | -- | 378 | .35 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-08-03 | 1240 | 330 | L5. | .3 | 132.0 | 154.0 | 43.2 | 11.2 | .4 | 1.3 |
| 79-09-27 | 0915 | 330 | L5. | .0 | 139.0 | 173.0 | 45.7 | 14.3 | .5 | 2.1 |
| 79-11-06 | 1055 | 330 | L5 | .0 | 143.0 | 176.0 | 48.4 | 13.4 | .2 | 2.3 |
| 80-01-04 | 1020 | 330 | L5. | 2.1 | 148.0 | 174.0 | 49.0 | 12.5 | .4 | 2.7 |
| 80-02-27 | 1315 | 330 | 5. | .0 | 150.0 | 181.0 | 51.6 | 12.7 | .6 | 2.9 |
| 80-05-05 | 1310 | 330 | 60. | .0 | 99.7 | 108.0 | 34.1 | 5.5 | .4 | 1.0 |
| 80-06-03 | 1110 | 330 | 30. | .0 | 107.0 | 116.0 | 35.0 | 6.9 | .4 | 1.2 |
| 80-07-08 | 1150 | 330 | 5. | .7 | 129.0 | 147.0 | 43.0 | 9.6 | .3 | 1.5 |
| 80-11-05 | 1440 | 330 | 10. | .0 | 137.0 | 161.0 | 46.3 | 11.0 | .5 | 2.1 |
| 81-01-09 | 1045 | 330 | 5. | .0 | 134.0 | 154.0 | 43.2 | 11.2 | .4 | 2.1 |
| 81-04-03 | 1610 | 330 | 10. | 1.7 | 138.0 | 160.0 | 45.9 | 11.0 | .5 | 2.4 |
| 81-05-01 | 1130 | 330 | 20. | .0 | 97.3 | 107.0 | 31.4 | 6.9 | .6 | 1.2 |
| 81-05-29 | 1310 | 330 | 10. | .0 | 117.0 | 110.0 | 32.9 | 6.8 | .5 | .8 |
| 81-08-14 | 1055 | 330 | 10. | 2.1 | 137.0 | 151.9 | 43.6 | 10.5 | .5 | 1.5 |
| 81-10-14 | 1330 | 330 | 10. | .0 | 143.0 | 173.0 | 47.2 | 13.4 | .3 | 2.0 |
| 81-12-31 | 1215 | 330 | L5. | .0 | 162.0 | 195.0 | 57.1 | 12.7 | .6 | 3.0 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-08-03 | 1240 | 330 | 1.3 | .155 | 5.5 | 21.0 | L.002 | -- | -- | -- |
| 79-09-27 | 0915 | 330 | 1.8 | .190 | 3.7 | 27.0 | .012 | -- | -- | -- |
| 79-11-06 | 1055 | 330 | 1.9 | .151 | 4.2 | 32.0 | .062 | -- | -- | -- |
| 80-01-04 | 1020 | 330 | 2.6 | .158 | 4.7 | 30.0 | .158 | -- | -- | -- |
| 80-02-27 | 1315 | 330 | 3.0 | .170 | 4.8 | 34.0 | L.002 | -- | -- | -- |
| 80-05-05 | 1310 | 330 | 1.0 | .110 | 4.3 | 10.4 | .146 | -- | -- | -- |
| 80-06-03 | 1110 | 330 | 1.2 | .125 | 4.3 | 11.5 | .122 | -- | -- | -- |
| 80-07-08 | 1150 | 330 | 1.2 | .162 | 4.1 | 16.8 | .045 | -- | -- | -- |
| 80-11-05 | 1440 | 330 | 1.8 | .160 | 4.9 | 26.5 | .095 | -- | -- | -- |
| 81-01-09 | 1045 | 330 | 1.7 | .130 | 5.0 | 20.0 | .166 | -- | -- | -- |
| 81-04-03 | 1610 | 330 | 2.1 | .200 | 4.3 | 21.5 | .039 | -- | -- | -- |
| 81-05-01 | 1130 | 330 | 1.1 | .100 | 4.6 | 9.5 | .172 | -- | -- | -- |
| 81-05-29 | 1310 | 330 | .8 | .110 | 4.3 | 8.0 | .120 | -- | -- | -- |
| 81-08-14 | 1055 | 330 | 1.1 | .160 | 4.0 | 15.6 | .109 | -- | -- | -- |
| 81-10-14 | 1330 | 330 | 1.6 | .150 | 3.5 | 24.5 | .106 | .175 | -- | -- |
| 81-12-31 | 1215 | 330 | 2.4 | .180 | 5.6 | 31.5 | .272 | .478 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NK0002 LAT. 49D 12M 55S LONG. 115D 6M 33S
ELK RIVER AT OLD HWY BRIDGE. BM 2552. 3.3 KM SSW OF CONFLUENCE WITH WIGWAM RIVER. BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-08-03 | 1240 | 330 | -- | L10. | 181. | L10. | 151. | -- | -- | -- |
| 79-09-27 | 0915 | 330 | -- | L10. | 192. | L10. | 162. | -- | -- | -- |
| 79-11-06 | 1055 | 330 | -- | L10. | 181. | L10. | 161. | -- | -- | -- |
| 80-01-04 | 1020 | 330 | -- | L10. | 209. | L10. | 169. | -- | -- | -- |
| 80-02-27 | 1315 | 330 | -- | 76. | 205. | 70. | 164. | -- | -- | -- |
| 80-05-05 | 1310 | 330 | -- | 96. | 117. | 84. | 85. | -- | -- | -- |
| 80-06-03 | 1110 | 330 | -- | 33. | 190. | 32. | 82. | -- | -- | -- |
| 80-07-08 | 1150 | 330 | -- | L10. | 170. | L10. | 130. | -- | -- | -- |
| 80-11-05 | 1440 | 330 | -- | 16. | 180. | 11. | 150. | -- | -- | -- |
| 81-01-09 | 1045 | 330 | -- | L10. | 160. | 10. | 144. | -- | -- | -- |
| 81-04-03 | 1610 | 330 | -- | L10. | 185. | L10. | 140. | -- | -- | -- |
| 81-05-01 | 1130 | 330 | -- | 322. | 118. | 292. | 89. | -- | -- | -- |
| 81-05-29 | 1310 | 330 | -- | 311. | 120. | 275. | 80. | -- | -- | -- |
| 81-08-14 | 1055 | 330 | -- | L10. | 190. | L10. | 130. | -- | -- | -- |
| 81-10-14 | 1330 | 330 | -- | L10. | 170. | L10. | 150. | L.05 | L.001 | -- |
| 81-12-31 | 1215 | 330 | -- | L10. | 231. | L10. | 193. | L.05 | L.001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-08-03 | 1240 | 330 | .0004 | .0006 | -- | -- | -- | -- | -- | -- |
| 79-09-27 | 0915 | 330 | .0001 | .0006 | -- | -- | -- | -- | -- | -- |
| 79-11-06 | 1055 | 330 | .0003 | .0005 | -- | -- | -- | -- | -- | -- |
| 80-01-04 | 1020 | 330 | .0003 | .0007 | -- | -- | -- | -- | -- | -- |
| 80-02-27 | 1315 | 330 | .0008 | .0008 | -- | -- | -- | -- | -- | -- |
| 80-05-05 | 1310 | 330 | .0004 | .0005 | -- | -- | -- | -- | -- | -- |
| 80-06-03 | 1110 | 330 | .0003 | .0004 | -- | -- | -- | -- | -- | -- |
| 80-07-08 | 1150 | 330 | .0002 | .0005 | -- | -- | -- | -- | -- | -- |
| 80-11-05 | 1440 | 330 | .0002 | .0005 | -- | -- | -- | -- | -- | -- |
| 81-01-09 | 1045 | 330 | .0002 | .0004 | -- | -- | -- | -- | -- | -- |
| 81-04-03 | 1610 | 330 | .0002 | .0006 | -- | -- | -- | -- | -- | -- |
| 81-05-01 | 1130 | 330 | .0002 | .0004 | -- | -- | -- | -- | -- | -- |
| 81-05-25 | 1310 | 330 | .0015 | .0005 | -- | -- | -- | -- | -- | -- |
| 81-08-14 | 1055 | 330 | .0001 | .0007 | -- | -- | -- | -- | -- | -- |
| 81-10-14 | 1330 | 330 | .0004 | .0010 | -- | L.010 | -- | L.001 | -- | .046 |
| 81-12-31 | 1215 | 330 | .0004 | .0004 | -- | L.010 | -- | 025 | -- | .023 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-08-03 | 1240 | 330 | -- | -- | 38.80 | -- | -- | -- |
| 79-09-27 | 0915 | 330 | -- | -- | 21.60 | -- | -- | -- |
| 79-11-06 | 1055 | 330 | -- | -- | 18.20 | -- | -- | -- |
| 80-01-04 | 1020 | 330 | -- | -- | 17.70 | -- | -- | -- |
| 80-01-30 | 1200 | 330 | -- | -- | -- | -- | -- | 14.70 |
| 80-02-27 | 1315 | 330 | -- | -- | 19.80 | -- | -- | -- |
| 80-05-05 | 1310 | 330 | -- | -- | 344.00 | -- | -- | -- |
| 80-05-06 | 1200 | 330 | -- | -- | -- | -- | 351.00 | -- |
| 80-06-03 | 1110 | 330 | -- | -- | 235.00 | -- | -- | -- |
| 80-07-08 | 1150 | 330 | -- | -- | 68.90 | -- | -- | -- |
| 80-11-05 | 1440 | 330 | -- | -- | 25.80 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 70.80 | -- | -- |
| 81-01-09 | 1045 | 330 | -- | -- | 41.00 | -- | -- | -- |
| 81-04-03 | 1610 | 330 | -- | -- | 36.10 | -- | -- | -- |
| 81-05-01 | 1130 | 330 | -- | -- | 225.00 | -- | -- | -- |
| 81-05-26 | 1200 | 330 | -- | -- | -- | -- | 554.00 | -- |
| 81-05-29 | 1310 | 330 | -- | -- | 449.00 | -- | -- | -- |
| 81-08-14 | 1055 | 330 | -- | -- | 70.60 | -- | -- | -- |
| 81-10-14 | 1330 | 330 | L.0005 | L.001 | -- | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 87.10 | -- | 14.80 |
| | 1215 | 330 | L.0005 | L.001 | -- | -- | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NL0005 LAT 49D 4M 45S LONG 119D 42M 33S
SIMILKAMEEN RIVER 9.0 KM NORTH OF U.S. BORDER. ROAD BRIDGE EXIT OFF HWY 3A BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | [illegible]061S TEMP. WATER DEG. C | 02061L TEMP. WATER DEG. C | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-24 | 1300 | 330 | -- | 8.0 | 19.2 | -- | 8.1 | -- | 196 | 50 |
| 79-12-10 | 1050 | 330 | -- | 2.5 | 19.9 | -- | 7.8 | -- | 182 | 1.10 |
| 80-02-22 | 1450 | 330 | -- | 3.5 | 20.1 | -- | 8.1 | -- | 193 | 69 |
| 80-04-15 | 0830 | 330 | 17.5 | 10.0 | 20.1 | 8.2 | 8.1 | 180 | 178 | 3.90 |
| 80-04-29 | 1050 | 330 | 19.5 | 5.5 | 20.4 | -- | 7.5 | -- | 72 | 37.00 |
| 80-06-11 | 1124 | 330 | 10.0 | -- | 24.1 | -- | 7.7 | -- | 71 | 2.70 |
| 80-08-05 | 1047 | 330 | 23.0 | 16.0 | 24.3 | 7.3 | 8.1 | 180 | 172 | 21 |
| 80-09-18 | 1300 | 330 | 20.0 | 14.5 | 22.6 | -- | 7.8 | -- | 157 | 48 |
| 80-09-25 | 1645 | 330 | 22.5 | 13.5 | 18.5 | 7.8 | 8.0 | 185 | 170 | 41 |
| 80-10-21 | 0843 | 330 | 11.0 | 9.0 | 21.5 | 8.3 | 8.1 | 220 | 193 | 56 |
| 80-12-01 | 1217 | 330 | 4.0 | 3.0 | 22.5 | 7.7 | 8.0 | 220 | 145 | 70 |
| 81-01-28 | 1245 | 330 | 5.0 | 3.0 | 20.0 | -- | 7.6 | -- | 155 | 31 |
| 81-02-09 | 1245 | 330 | -- | 1.5 | 20.7 | 8.3 | 7.8 | -- | 194 | 31 |
| 81-04-06 | 1118 | 330 | 9.0 | 6.0 | 18.8 | 8.6 | 8.1 | 280 | 197 | 47 |
| 81-04-07 | 1045 | 330 | 10.0 | 7.0 | 21.0 | -- | 8.1 | -- | 195 | 54 |
| 81-05-14 | 1030 | 330 | 20.0 | 10.5 | 22.4 | -- | 7.7 | -- | 106 | 5.70 |
| 81-08-21 | 1415 | 330 | 32.0 | 20.0 | 21.5 | 7.7 | 8.2 | 170 | 167 | 40 |
| 81-09-04 | 1330 | 330 | 20.0 | 15.0 | 23.7 | -- | 7.9 | -- | 255 | 30 |
| 81-09-24 | 1310 | 330 | 16.0 | 10.5 | 21.8 | -- | 7.9 | -- | 192 | 30 |
| 81-12-01 | 1313 | 330 | 7.5 | 3.0 | 21.8 | -- | 8.0 | -- | 196 | 30 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-24 | 1300 | 330 | 5. | 0 | 80.8 | 96.4 | 29.1 | 5.8 | .9 | 4.4 |
| 79-12-10 | 1050 | 330 | L5. | 0 | 75.2 | 84.2 | 26.8 | 4.2 | .9 | 4.4 |
| 80-02-22 | 1450 | 330 | L5. | 0 | 80.4 | 89.8 | 28.2 | 4.7 | .9 | 4.3 |
| 80-04-15 | 0830 | 330 | L5. | 0 | 73.5 | 83.1 | 26.4 | 4.2 | .8 | 4.2 |
| 80-04-29 | 1050 | 330 | 130. | 0 | 30.6 | 35.3 | 12.8 | 1.1 | .5 | 2.0 |
| 80-06-11 | 1124 | 330 | 35. | 0 | 30.3 | 32.7 | 11.2 | 1.1 | .5 | 1.8 |
| 80-08-05 | 1047 | 330 | 10. | 0 | 69.0 | 76.0 | 29.0 | .9 | 1.1 | 3.8 |
| 80-09-18 | 1300 | 330 | 10. | 0 | 68.0 | 74.0 | 23.5 | 3.7 | .8 | 3.7 |
| 80-09-25 | 1645 | 330 | 10. | 0 | 69.0 | 75.8 | 23.5 | 4.2 | .8 | 3.7 |
| 80-10-21 | 0843 | 330 | 5. | 0 | 78.3 | 86.2 | 29.2 | 3.2 | .9 | 4.0 |
| 80-12-01 | 1217 | 330 | 15. | 0 | 59.8 | 66.4 | 21.4 | 3.1 | .8 | 3.2 |
| 81-01-28 | 1245 | 330 | 10. | 0 | 65.1 | 73.3 | 23.0 | 3.9 | .6 | 3.4 |
| 81-02-09 | 1245 | 330 | 10. | 0 | 75.2 | 87.2 | 26.6 | 5.0 | 2.2 | 4.0 |
| 81-04-06 | 1118 | 330 | 10. | 0 | 80.6 | 85.9 | 27.7 | 4.1 | 1.5 | 4.3 |
| 81-04-07 | 1045 | 330 | 10. | 0 | 78.5 | 85.9 | 26.8 | 4.6 | .8 | 4.3 |
| 81-05-14 | 1030 | 330 | 20. | 0 | 45.1 | 46.8 | 14.7 | 2.5 | .5 | 2.5 |
| 81-08-21 | 1415 | 330 | 15. | 0 | 68.2 | 75.4 | 22.0 | 5.0 | .9 | 3.6 |
| 81-09-04 | 1330 | 330 | 15 | 0 | 99.3 | 119.0 | 31.4 | 9.9 | 1.4 | 5.8 |
| 81-09-24 | 1310 | 330 | 10. | 0 | 78.6 | 86.0 | 25.2 | 5.6 | .9 | 4.2 |
| 81-12-01 | 1313 | 330 | 5 | 0 | 81.5 | 97.3 | 26.7 | 7.4 | .8 | 4.2 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17205L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-24 | 1300 | 330 | 1.0 | .121 | 11.8 | 18.4 | .007 | -- | -- | -- |
| 79-12-10 | 1050 | 330 | 1.3 | .074 | 11.1 | 17.9 | .059 | -- | -- | -- |
| 80-02-22 | 1450 | 330 | 1.2 | .085 | 11.6 | 17.8 | .067 | -- | -- | -- |
| 80-04-15 | 0830 | 330 | 1.6 | .088 | 10.6 | 15.0 | .008 | -- | -- | -- |
| 80-04-29 | 1050 | 330 | 1.0 | L.050 | 9.8 | 4.6 | .017 | -- | -- | -- |
| 80-06-11 | 1124 | 330 | .5 | L.050 | 10.3 | 4.5 | .002 | -- | -- | -- |
| 80-08-05 | 1047 | 330 | 1.3 | .058 | 11.8 | 12.9 | .008 | -- | -- | -- |
| 80-09-18 | 1300 | 330 | 1.0 | .050 | 11.0 | 14.0 | .005 | -- | -- | -- |
| 80-09-25 | 1645 | 330 | 1.2 | .060 | 11.1 | 15.0 | .004 | -- | -- | -- |
| 80-10-21 | 0843 | 330 | 1.3 | .070 | 11.4 | 15.7 | .028 | -- | -- | -- |
| 80-12-01 | 1217 | 330 | 1.2 | .050 | 8.9 | 11.7 | .062 | -- | -- | -- |
| 81-01-28 | 1245 | 330 | 1.2 | .060 | 11.0 | 12.5 | .054 | -- | -- | -- |
| 81-02-09 | 1245 | 330 | 2.0 | .090 | 11.6 | 14.7 | .310 | -- | -- | -- |
| 81-04-06 | 1118 | 330 | 1.8 | .070 | 10.9 | 13.4 | .146 | -- | -- | -- |
| 81-04-07 | 1045 | 330 | 1.4 | .060 | 10.9 | 13.6 | .007 | -- | -- | -- |
| 81-05-14 | 1030 | 330 | .6 | .050 | 10.6 | 6.5 | L.002 | -- | -- | -- |
| 81-08-21 | 1415 | 330 | .9 | .060 | 12.4 | 12.0 | .005 | .071 | 18.4 | L.5 |
| 81-09-04 | 1330 | 330 | 2.1 | .180 | 17.0 | 26.4 | .175 | .315 | 25.6 | L.3 |
| 81-09-24 | 1310 | 330 | 1.1 | .070 | 11.9 | 14.5 | .015 | .078 | -- | -- |
| 81-12-01 | 1313 | 330 | 1.1 | .950 | 12.0 | 15.9 | .134 | .274 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NL0005 LAT. 49D 4M 45S LONG. 119D 42M 33S
SIMILKAMEEN RIVER 9.0 KM NORTH OF U.S. BORDER. ROAD BRIDGE EXIT OFF HWY 3A. BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-24 | 1300 | 330 | -- | L10. | 133. | L10. | 112. | -- | -- | -- |
| 79-12-10 | 1050 | 330 | -- | L10. | 122. | L10. | 108. | -- | -- | -- |
| 80-02-22 | 1450 | 330 | -- | L10. | 124. | L10. | 112. | -- | -- | -- |
| 80-04-15 | 0830 | 330 | -- | 15. | 118. | 14. | 76. | -- | -- | -- |
| 80-04-29 | 1050 | 330 | -- | 140. | 64. | 130. | 42. | -- | -- | -- |
| 80-06-11 | 1124 | 330 | -- | L10. | 68. | L10. | 44. | -- | -- | -- |
| 80-08-05 | 1047 | 330 | -- | L10. | 115. | L10. | 101. | -- | -- | -- |
| 80-09-18 | 1300 | 330 | -- | L10. | 128. | L10. | 104. | -- | -- | -- |
| 80-09-25 | 1645 | 330 | -- | L10. | 112. | L10. | 87. | -- | -- | -- |
| 80-10-21 | 0843 | 330 | -- | L10. | 120. | L10. | 100. | -- | -- | -- |
| 80-12-01 | 1217 | 330 | -- | L10. | 91. | L10. | 79. | -- | -- | -- |
| 81-01-28 | 1245 | 330 | -- | L10. | 136. | L10. | 89. | -- | -- | -- |
| 81-02-09 | 1245 | 330 | -- | L10. | 136. | L10. | 101. | -- | -- | -- |
| 81-04-06 | 1118 | 330 | -- | L10. | 119. | L10. | 90. | -- | -- | -- |
| 81-04-07 | 1045 | 330 | -- | L10. | 133. | L10. | 107. | -- | -- | -- |
| 81-05-14 | 1030 | 330 | -- | 21. | 81. | 18. | 60. | -- | -- | -- |
| 81-08-21 | 1415 | 330 | -- | L10. | 110. | L10. | 86. | L.05 | .001 | -- |
| 81-09-04 | 1330 | 330 | -- | L10. | 170. | L10. | 130. | L.05 | .001 | -- |
| 81-09-24 | 1310 | 330 | -- | L10. | 120. | L10. | 97. | L.05 | L.001 | -- |
| 81-12-01 | 1313 | 330 | -- | L10. | 124. | L10. | 89. | L.05 | L.001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-24 | 1300 | 330 | .0023 | .0003 | -- | -- | -- | -- | -- | -- |
| 79-12-10 | 1050 | 330 | .0026 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-02-22 | 1450 | 330 | .0022 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-04-15 | 0830 | 330 | .0020 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-04-29 | 1050 | 330 | .0035 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-11 | 1124 | 330 | .0010 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-08-05 | 1047 | 330 | .0017 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-09-18 | 1300 | 330 | .0023 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-25 | 1645 | 330 | .0015 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-21 | 0843 | 330 | .0022 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-12-01 | 1217 | 330 | .0010 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-01-28 | 1245 | 330 | .0007 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-02-09 | 1245 | 330 | .0013 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1118 | 330 | .0011 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-04-07 | 1045 | 330 | .0013 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-05-14 | 1030 | 330 | .0009 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-21 | 1415 | 330 | .0020 | .0002 | -- | .010 | -- | .001 | .05 | -- |
| 81-09-04 | 1330 | 330 | .0005 | .0001 | -- | .010 | -- | .007 | -- | .043 |
| 81-09-24 | 1310 | 330 | .0022 | .0002 | -- | .010 | -- | L.001 | .06 | -- |
| 81-12-01 | 1313 | 330 | .0017 | .0002 | -- | L.010 | -- | .011 | -- | .020 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NL0005 LAT. 49D 4M 45S LONG. 119D 42M 33S
SIMILKAMEEN RIVER 9.0 KM NORTH OF U.S. BORDER. ROAD BRIDGE EXIT OFF HWY 3A BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-10-24 | 1300 | 330 | -- | -- | 9.94 | -- | -- | -- |
| 79-12-10 | 1050 | 330 | -- | -- | 17.30 | -- | -- | -- |
| 80-01-29 | 1200 | 330 | -- | -- | -- | -- | -- | 6.51 |
| 80-02-22 | 1450 | 330 | -- | -- | 14.50 | -- | -- | -- |
| 80-04-15 | 0830 | 330 | -- | -- | 22.50 | -- | -- | -- |
| 80-04-29 | 1050 | 330 | -- | -- | 262.00 | -- | -- | -- |
| 80-05-07 | 1200 | 330 | -- | -- | -- | -- | 394.00 | -- |
| 80-06-11 | 1124 | 330 | -- | -- | 253.00 | -- | -- | -- |
| 80-08-05 | 1047 | 330 | -- | -- | 26.60 | -- | -- | -- |
| 80-09-18 | 1300 | 330 | -- | -- | 22.10 | -- | -- | -- |
| 80-09-25 | 1645 | 330 | -- | -- | 21.80 | -- | -- | -- |
| 80-10-21 | 0843 | 330 | -- | -- | 14.50 | -- | -- | -- |
| 80-12-01 | 1217 | 330 | -- | -- | 28.60 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 70.00 | -- | -- |
| 81-01-28 | 1245 | 330 | -- | -- | 35.40 | -- | -- | -- |
| 81-02-09 | 1245 | 330 | -- | -- | 22.10 | -- | -- | -- |
| 81-04-06 | 1118 | 330 | -- | -- | 27.30 | -- | -- | -- |
| 81-04-07 | 1045 | 330 | -- | -- | 27.10 | -- | -- | -- |
| 81-05-14 | 1030 | 330 | -- | -- | 115.00 | -- | -- | -- |
| 81-05-26 | 1200 | 330 | -- | -- | -- | -- | 399.00 | -- |
| 81-08-21 | 1415 | 330 | L 0005 | L 001 | 28.90 | -- | -- | -- |
| 81-09-04 | 1330 | 330 | 0005 | 001 | 23.50 | -- | -- | -- |
| 81-09-24 | 1310 | 330 | L 0005 | L 001 | 15.30 | -- | -- | -- |
| 81-12-01 | 1313 | 330 | L 0005 | L 001 | 15.10 | -- | -- | -- |
| 81-12-30 | 1200 | 330 | -- | -- | -- | -- | -- | 11.20 |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 62.30 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NM0001
OKANAGAN RIVER AT NO. 18 ROAD BRIDGE OLIVER BRITISH COLUMBIA
LAT. 49D 7M 4S LONG. 119D 34M 4S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1530 | 330 | -- | 20.0 | 22.0 | -- | 8.4 | -- | 272. | .80 |
| 79-09-28 | 1318 | 330 | -- | 16.5 | 19.7 | -- | 8.3 | -- | 278. | .38 |
| 79-12-03 | 1210 | 330 | -- | 3.0 | 19.7 | -- | 7.9 | -- | 304. | .55 |
| 80-02-25 | 1125 | 330 | -- | 3.0 | 20.2 | -- | 8.2 | -- | 311. | 2.70 |
| 80-06-12 | 1348 | 330 | 16.0 | -- | 24.0 | -- | 8.1 | -- | 185. | 1.90 |
| 80-10-08 | 1340 | 330 | 19.0 | 15.5 | 22.1 | -- | 8.4 | -- | 273. | .56 |
| 81-01-28 | 1115 | 330 | 3.5 | 4.0 | 20.0 | -- | 7.8 | -- | 286. | .35 |
| 81-02-13 | 1550 | 330 | 3.5 | 3.0 | 16.5 | 8.7 | 8.2 | 330. | 317. | .17 |
| 81-04-06 | 1450 | 330 | 8.0 | 9.0 | 20.0 | -- | 8.3 | -- | 305 | .25 |
| 81-05-14 | 0955 | 330 | 20.0 | 13.5 | 22.3 | -- | 8.2 | -- | 255. | 3.40 |
| 81-08-18 | 1245 | 330 | 36.0 | 26.0 | 18.9 | 7.9 | 8.3 | 280. | 264. | .50 |
| 81-09-16 | 0920 | 330 | 22.0 | 18.0 | 22.2 | -- | 7.7 | -- | 280. | .30 |
| 81-10-15 | 1145 | 330 | 13.0 | 11.0 | 20.3 | 8.1 | 8.0 | 255. | 281. | 90 |
| 81-12-01 | 1145 | 330 | 8.0 | 5.0 | 21.8 | -- | 7.9 | -- | 290. | 1.60 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1530 | 330 | 5. | 1.0 | 108.0 | 123.0 | 34.2 | 9.1 | 2.4 | 10.3 |
| 79-09-28 | 1318 | 330 | 5. | .0 | 112.0 | 127.0 | 33.0 | 10.8 | 2.4 | 10.2 |
| 79-12-03 | 1210 | 330 | L5 | .0 | 123.0 | 137.0 | 37.7 | 10.4 | 2.6 | 11.2 |
| 80-02-25 | 1125 | 330 | 5. | .0 | 126.0 | 140.0 | 39.5 | 10.0 | 2.5 | 11.2 |
| 80-06-12 | 1348 | 330 | 60. | .0 | 70.6 | 78.4 | 23.7 | 4.7 | 1.6 | 7.0 |
| 80-10-08 | 1340 | 330 | 15. | 1.9 | 113.0 | 126.0 | 34.2 | 9.9 | 2.2 | 10.4 |
| 81-01-28 | 1115 | 330 | 10. | .0 | 116.0 | 133.0 | 35.6 | 10.7 | 2.2 | 10.5 |
| 81-02-13 | 1550 | 330 | 10. | .0 | 126.0 | 140.0 | 39.3 | 10.2 | 2.6 | 10.9 |
| 81-04-06 | 1450 | 330 | 5. | 5 | 120.0 | 131.0 | 38.2 | 8.6 | 2.3 | 10.8 |
| 81-05-14 | 0955 | 330 | 15. | .0 | 99.7 | 106.0 | 30.8 | 7.1 | 2.0 | 9.4 |
| 81-08-18 | 1245 | 330 | 15. | .0 | 106.0 | 115.0 | 29.9 | 9.8 | 2.0 | 9.6 |
| 81-09-16 | 0920 | 330 | 10. | .0 | 114.0 | 119.0 | 33.0 | 8.9 | 2.2 | 9.8 |
| 81-10-15 | 1145 | 330 | 15. | .0 | 111.0 | 123.0 | 33.0 | 9.9 | 2.2 | 9.7 |
| 81-12-01 | 1145 | 330 | 10. | .0 | 115.0 | 133.0 | 34.6 | 11.3 | 2.1 | 10.0 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09105L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1530 | 330 | 2.4 | .200 | 3.2 | 31.0 | 091 | -- | -- | -- |
| 79-09-28 | 1318 | 330 | 2.5 | .220 | 3.5 | 30.0 | .037 | -- | -- | -- |
| 79-12-03 | 1210 | 330 | 2.4 | .245 | 5.0 | 37.0 | 185 | -- | -- | -- |
| 80-02-25 | 1125 | 330 | 1.4 | 242 | 4.3 | 37.0 | .177 | -- | -- | -- |
| 80-06-12 | 1348 | 330 | 1.9 | L.165 | 7.8 | 17.5 | .053 | -- | -- | -- |
| 80-10-08 | 1340 | 330 | 2.2 | .080 | 3.4 | 28.0 | .079 | -- | -- | -- |
| 81-01-28 | 1115 | 330 | 2.5 | .180 | 4.3 | 31.0 | .123 | -- | -- | -- |
| 81-02-13 | 1550 | 330 | 2.6 | .200 | 4.8 | 30.5 | .189 | -- | -- | -- |
| 81-04-06 | 1450 | 330 | 2.3 | 210 | 2.9 | 29.5 | .098 | -- | -- | -- |
| 81-05-14 | 0955 | 330 | 1.9 | .220 | 2.6 | 23.8 | 023 | -- | -- | -- |
| 81-08-18 | 1245 | 330 | .8 | .170 | 4.8 | 25.0 | .039 | .269 | 27.3 | 2.4 |
| 81-09-16 | 0920 | 330 | 1.9 | .200 | 5.0 | 26.5 | 089 | .270 | 29.0 | 3.6 |
| 81-10-15 | 1145 | 330 | 2.0 | 190 | 5.1 | 27.5 | .095 | 327 | -- | -- |
| 81-12-01 | 1145 | 330 | 2.1 | 2.500 | 6.4 | 28.5 | .134 | .328 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NM0001
OKANAGAN RIVER AT NO. 18 ROAD BRIDGE OLIVER BRITISH COLUMBIA LAT. 49D 7M 4S LONG. 119D 34M 4S

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1530 | 330 | -- | L10. | 164. | L10. | 108 | -- | -- | -- |
| 79-09-28 | 1318 | 330 | -- | L10. | 175. | L10. | 127. | -- | -- | -- |
| 79-12-03 | 1210 | 330 | -- | L10. | 192. | L10. | 158. | -- | -- | -- |
| 80-02-25 | 1125 | 330 | -- | L10. | 200. | L10. | 168. | -- | -- | -- |
| 80-06-12 | 1348 | 330 | -- | 10. | 130. | L10. | 92. | -- | -- | -- |
| 80-10-08 | 1340 | 330 | -- | L10. | 160. | L10. | 120 | -- | -- | -- |
| 81-01-28 | 1115 | 330 | -- | L10. | 215. | L10. | 163 | -- | -- | -- |
| 81-02-13 | 1550 | 330 | -- | L10. | 192. | L10. | 156. | -- | -- | -- |
| 81-04-06 | 1450 | 330 | -- | L10. | 124. | L10. | 108. | -- | -- | -- |
| 81-05-14 | 0955 | 330 | -- | 27. | 165. | 21. | 123 | -- | -- | -- |
| 81-08-18 | 1245 | 330 | -- | L10. | 180. | L10. | 140 | 05 | 001 | -- |
| 81-09-16 | 0920 | 330 | -- | L10. | 150. | L10. | 150 | L 05 | L 001 | -- |
| 81-10-15 | 1145 | 330 | -- | L10. | 160. | L10. | 120 | L 05 | 001 | -- |
| 81-12-01 | 1145 | 330 | -- | L10 | 170 | L10. | 114 | L 05 | L 001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL ZN MG/L | 30305P ZINC EXTRBLE ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1530 | 330 | .0006 | .0003 | -- | -- | -- | -- | -- | -- |
| 79-09-28 | 1318 | 330 | .0006 | .0003 | -- | -- | -- | -- | -- | -- |
| 79-12-03 | 1210 | 330 | .0007 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-02-25 | 1125 | 330 | .0006 | .0004 | -- | -- | -- | -- | -- | -- |
| 80-06-12 | 1348 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-08 | 1340 | 330 | .0004 | .0004 | -- | -- | -- | -- | -- | -- |
| 81-01-28 | 1115 | 330 | .0004 | .0003 | -- | -- | -- | -- | -- | -- |
| 81-02-13 | 1550 | 330 | .0004 | .0003 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1450 | 330 | .0004 | .0003 | -- | -- | -- | -- | -- | -- |
| 81-05-14 | 0955 | 330 | .0004 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-08-18 | 1245 | 330 | .0002 | .0002 | -- | .020 | -- | .001 | -- | .053 |
| 81-09-16 | 0920 | 330 | .0004 | .0003 | -- | .010 | -- | .001 | 07 | -- |
| 81-10-15 | 1145 | 330 | .0005 | .0003 | -- | L.010 | -- | L.001 | -- | .050 |
| 81-12-01 | 1145 | 330 | .0002 | .0002 | -- | .020 | -- | .007 | -- | 035 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1530 | 330 | -- | -- | 10.40 | -- | -- | -- |
| 79-09-28 | 1318 | 330 | -- | -- | 10.40 | -- | -- | -- |
| 79-12-03 | 1210 | 330 | -- | -- | 5.47 | -- | -- | -- |
| 80-01-06 | 1200 | 330 | -- | -- | -- | -- | -- | 3.79 |
| 80-02-25 | 1125 | 330 | -- | -- | 5.10 | -- | -- | -- |
| 80-06-12 | 1348 | 330 | -- | -- | 15.60 | -- | -- | -- |
| 80-06-16 | 1200 | 330 | -- | -- | -- | -- | 26.80 | -- |
| 80-10-08 | 1340 | 330 | -- | -- | 14.50 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 11.50 | -- | -- |
| 81-01-28 | 1115 | 330 | -- | -- | 9.09 | -- | -- | -- |
| 81-02-13 | 1550 | 330 | -- | -- | 5.61 | -- | -- | -- |
| 81-02-17 | 1200 | 330 | -- | -- | -- | -- | -- | 4.90 |
| 81-04-06 | 1450 | 330 | -- | -- | 6.91 | -- | -- | -- |
| 81-05-14 | 0955 | 330 | -- | -- | 32.60 | -- | -- | -- |
| 81-05-14 | 1200 | 330 | -- | -- | -- | -- | 72.80 | -- |
| 81-08-18 | 1245 | 330 | .0005 | .001 | 37.40 | -- | -- | -- |
| 81-09-16 | 0920 | 330 | L.0005 | L.001 | 14.20 | -- | -- | -- |
| 81-10-15 | 1145 | 330 | L.0005 | L.001 | 16.70 | -- | -- | -- |
| 81-12-01 | 1145 | 330 | L.0005 | L.001 | 11.40 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 22.50 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NN0010 LAT. 49D 0M 6S LONG. 118D 45M 38S
BOUNDARY CREEK AT MIDWAY. HWY BRIDGE 0.25KM NORTH OF U.S. BORDER. BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1330 | 330 | -- | 14.5 | 22.1 | -- | 8.6 | -- | 288. | .50 |
| 79-10-09 | 1500 | 330 | -- | 9.0 | 20.9 | -- | 8.3 | -- | 304. | .51 |
| 79-12-14 | 1400 | 330 | -- | 1.0 | 19.3 | 8.4 | 8.0 | 300. | 303. | .34 |
| 80-01-08 | 1500 | 330 | -- | .1 | 20.1 | -- | 8.2 | -- | 327. | .33 |
| 80-02-20 | 1515 | 330 | 3.0 | .5 | 20.1 | -- | 8.2 | -- | 282. | 2.00 |
| 80-04-01 | 1330 | 330 | 11.0 | 8.0 | 20.6 | -- | 8.3 | -- | 256. | .58 |
| 80-04-14 | 1615 | 330 | 13.0 | 13.0 | 21.8 | 8.3 | 8.0 | 170. | 189. | 6.20 |
| 80-05-14 | 1215 | 330 | 16.5 | 8.5 | 20.0 | -- | 7.7 | -- | 98. | 2.80 |
| 80-06-26 | 1400 | 330 | 17.0 | 12.5 | 21.2 | -- | 7.9 | -- | 160. | 1.70 |
| 80-07-30 | 1130 | 330 | 28.0 | 15.0 | 24.2 | -- | 8.2 | -- | 247. | .35 |
| 80-08-05 | 1300 | 330 | 28.0 | 14.0 | 24.4 | 7.0 | 8.3 | 270. | 264. | .25 |
| 80-09-15 | 1140 | 330 | 19.0 | 12.0 | 21.4 | -- | 8.0 | -- | 250. | .20 |
| 80-09-25 | 1515 | 330 | 24.0 | 10.5 | 18.4 | 8.2 | 8.2 | 295. | 274. | .36 |
| 80-10-21 | 0641 | 330 | 9.0 | 8.0 | 20.5 | 8.5 | 8.3 | 340. | 314. | .55 |
| 80-12-01 | 1359 | 330 | 1.0 | 3.0 | 22.7 | 8.6 | 8.2 | 300. | 291. | .40 |
| 81-02-09 | 1410 | 330 | -- | 1.0 | 20.9 | 7.7 | 7.9 | 260. | 246. | .22 |
| 81-03-31 | 1445 | 330 | 8.0 | 5.0 | 18.2 | -- | 7.9 | -- | 200. | .30 |
| 81-04-06 | 1258 | 330 | 8.0 | 6.0 | 20.8 | 8.3 | 8.1 | 200. | 195. | .39 |
| 81-05-05 | 1320 | 330 | 18.0 | 7.0 | 17.6 | -- | 7.3 | -- | 107. | 4.00 |
| 81-06-16 | 1343 | 330 | 21.0 | 11.0 | 21.6 | -- | 7.5 | -- | 123. | 1.00 |
| 81-08-20 | 1815 | 330 | 25.0 | 18.5 | 21.5 | 8.0 | 8.2 | 240. | 227. | .60 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1330 | 330 | 5. | 3.5 | 105.0 | 138.0 | 41.2 | 8.5 | 1.7 | 6.6 |
| 79-10-09 | 1500 | 330 | L5. | .0 | 113.0 | 145.0 | 44.1 | 8.5 | 1.8 | 7.3 |
| 79-12-14 | 1400 | 330 | L5. | .0 | 107.0 | 139.0 | 41.3 | 8.7 | 4.6 | 5.8 |
| 80-01-08 | 1500 | 330 | L5. | .0 | 121.0 | 155.0 | 47.3 | 9.0 | 1.8 | 7.7 |
| 80-02-20 | 1515 | 330 | L5. | .0 | 102.0 | 129.0 | 38.2 | 8.2 | 1.8 | 7.7 |
| 80-04-01 | 1330 | 330 | 5. | .0 | 97.6 | 121.0 | 35.9 | 7.6 | 1.6 | 6.0 |
| 80-04-14 | 1615 | 330 | 10. | .0 | 72.3 | 87.2 | 28.0 | 4.2 | 1.3 | 4.4 |
| 80-05-14 | 1215 | 330 | 40. | .0 | 35.0 | 42.9 | 16.5 | .4 | .8 | 2.6 |
| 80-06-26 | 1400 | 330 | 15. | .0 | 65.4 | 75.2 | 24.9 | 3.2 | 1.2 | 4.2 |
| 80-07-30 | 1130 | 330 | 15. | .0 | 96.8 | 114.0 | 32.0 | 8.3 | 1.4 | 5.4 |
| 80-08-05 | 1300 | 330 | 10. | .0 | 95.0 | 117.0 | 33.6 | 2.0 | 2.1 | 6.0 |
| 80-09-15 | 1140 | 330 | 15. | .0 | 96.7 | 118.0 | 35.4 | 7.2 | 1.7 | 5.8 |
| 80-09-25 | 1515 | 330 | 10. | .0 | 108.9 | 133.0 | 40.4 | 7.8 | 1.6 | 6.5 |
| 80-10-21 | 0641 | 330 | 10. | .0 | 118.0 | 145.0 | 44.5 | 8.2 | 1.8 | 7.0 |
| 80-12-01 | 1359 | 330 | 10. | .0 | 108.0 | 135.0 | 40.7 | 8.1 | 1.9 | 6.6 |
| 81-02-09 | 1410 | 330 | 5. | .0 | 90.3 | 113.0 | 34.1 | 6.8 | 1.6 | 5.7 |
| 81-03-31 | 1445 | 330 | 20. | .0 | 73.9 | 87.4 | 27.6 | 4.5 | 1.1 | 4.4 |
| 81-04-06 | 1258 | 330 | 20. | .0 | 72.8 | 84.5 | 26.5 | 4.5 | 1.1 | 4.5 |
| 81-05-05 | 1320 | 330 | 35. | .0 | 38.7 | 47.2 | 15.1 | 2.3 | .7 | 2.8 |
| 81-06-16 | 1343 | 330 | 25. | .0 | 46.2 | 54.5 | 17.2 | 2.8 | .7 | 2.0 |
| 81-08-20 | 1815 | 330 | 15. | .0 | 86.9 | 107.0 | 28.3 | 8.8 | 1.4 | 5.1 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1330 | 330 | 3.2 | .230 | 16.7 | 38.0 | .260 | -- | -- | -- |
| 79-10-09 | 1500 | 330 | 3.3 | .248 | 16.6 | 41.5 | .270 | -- | -- | -- |
| 79-12-14 | 1400 | 330 | 5.5 | .215 | 16.3 | 34.0 | .460 | -- | -- | -- |
| 80-01-08 | 1500 | 330 | 3.3 | .210 | 18.4 | 45.0 | .640 | -- | -- | -- |
| 80-02-20 | 1515 | 330 | 5.1 | .212 | 15.4 | 36.0 | .500 | -- | -- | -- |
| 80-04-01 | 1330 | 330 | 2.9 | .235 | 15.1 | 26.0 | .260 | -- | -- | -- |
| 80-04-14 | 1615 | 330 | 1.2 | .210 | 16.0 | 19.0 | .250 | -- | -- | -- |
| 80-05-14 | 1215 | 330 | .7 | .140 | 14.5 | 9.2 | .060 | -- | -- | -- |
| 80-06-26 | 1400 | 330 | 1.1 | .169 | 16.6 | 15.6 | .045 | -- | -- | -- |
| 80-07-30 | 1130 | 330 | 1.6 | .204 | 17.2 | 28.5 | .002 | -- | -- | -- |
| 80-08-05 | 1300 | 330 | 2.9 | .224 | 17.2 | 31.0 | .280 | -- | -- | -- |
| 80-09-15 | 1140 | 330 | 2.3 | .250 | 17.0 | 27.0 | .200 | -- | -- | -- |
| 80-09-25 | 1515 | 330 | 2.7 | .210 | 17.2 | 32.5 | .240 | -- | -- | -- |
| 80-10-21 | 0641 | 330 | 3.2 | .210 | 16.3 | 38.0 | .300 | -- | -- | -- |
| 80-12-01 | 1359 | 330 | 3.1 | .200 | 16.8 | 36.0 | .470 | -- | -- | -- |
| 81-02-09 | 1410 | 330 | 2.4 | .220 | 16.1 | 27.5 | .420 | -- | -- | -- |
| 81-03-31 | 1445 | 330 | 1.2 | .180 | 15.8 | 18.0 | .160 | -- | -- | -- |
| 81-04-06 | 1258 | 330 | 1.2 | .180 | 16.2 | 17.2 | .161 | -- | -- | -- |
| 81-05-05 | 1320 | 330 | .7 | .170 | 15.6 | 9.9 | .081 | -- | -- | -- |
| 81-06-16 | 1343 | 330 | .6 | .160 | 15.5 | 11.3 | .023 | -- | -- | -- |
| 81-08-20 | 1815 | 330 | 1.6 | .170 | 16.9 | 23.0 | .141 | .279 | 23.3 | 1.7 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NN0010
BOUNDARY CREEK AT MIDWAY. HWY BRIDGE 0.25KM NORTH OF U.S. BORDER. LAT. 49D 0M 6S LONG. 118D 45M 38S BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1330 | 330 | -- | L10. | 192. | L10. | 162. | -- | -- | -- |
| 79-10-09 | 1500 | 330 | -- | L10. | 205. | L10. | 192. | -- | -- | -- |
| 79-12-14 | 1400 | 330 | -- | L10. | 189. | L10. | 159. | -- | -- | -- |
| 80-01-08 | 1500 | 330 | -- | L10. | 213. | L10. | 181. | -- | -- | -- |
| 80-02-20 | 1515 | 330 | -- | L10. | 189. | L10. | 159. | -- | -- | -- |
| 80-04-01 | 1330 | 330 | -- | L10. | 186. | L10. | 147. | -- | -- | -- |
| 80-04-14 | 1615 | 330 | -- | 35. | 133. | 30. | 95. | -- | -- | -- |
| 80-05-14 | 1215 | 330 | -- | 18. | 110. | 12. | 70. | -- | -- | -- |
| 80-06-26 | 1400 | 330 | -- | L10. | 110. | L10. | 89. | -- | -- | -- |
| 80-07-30 | 1130 | 330 | -- | L10. | 110. | L10. | 93. | -- | -- | -- |
| 80-08-05 | 1300 | 330 | -- | L10. | 176. | L10. | 151. | -- | -- | -- |
| 80-09-15 | 1140 | 330 | -- | L10. | 169. | L10. | 146. | -- | -- | -- |
| 80-09-25 | 1515 | 330 | -- | L10. | 197. | L10. | 163. | -- | -- | -- |
| 80-10-21 | 0641 | 330 | -- | L10. | 190. | L10. | 170. | -- | -- | -- |
| 80-12-01 | 1359 | 330 | -- | L10. | 181. | L10. | 164. | -- | -- | -- |
| 81-02-09 | 1410 | 330 | -- | L10. | 170. | L10. | 142. | -- | -- | -- |
| 81-03-31 | 1445 | 330 | -- | L10. | 140. | L10. | 117. | -- | -- | -- |
| 81-04-06 | 1258 | 330 | -- | L10. | 132. | L10. | 108. | -- | -- | -- |
| 81-05-05 | 1320 | 330 | -- | 18. | 86. | 13. | 62. | -- | -- | -- |
| 81-06-16 | 1343 | 330 | -- | L10. | 101. | L10. | 88. | -- | -- | -- |
| 81-08-20 | 1815 | 330 | -- | L10. | 160. | L10. | 120. | 05 | 001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1330 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-10-09 | 1500 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 79-12-14 | 1400 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-01-08 | 1500 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-02-20 | 1515 | 330 | .0005 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-04-01 | 1330 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-04-14 | 1615 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-05-14 | 1215 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-06-26 | 1400 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-30 | 1130 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-08-05 | 1300 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-09-15 | 1140 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-25 | 1515 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-21 | 0641 | 330 | .0004 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-12-01 | 1359 | 330 | .0003 | .0007 | -- | -- | -- | -- | -- | -- |
| 81-02-09 | 1410 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-03-31 | 1445 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1258 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-05-05 | 1320 | 330 | .0002 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-06-16 | 1343 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-08-20 | 1815 | 330 | .0004 | .0001 | -- | .010 | -- | .001 | .12 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-09-20 | 1330 | 330 | -- | -- | .32 | -- | -- | -- |
| 79-10-09 | 1500 | 330 | -- | -- | .24 | -- | -- | -- |
| 79-12-14 | 1400 | 330 | -- | -- | .29 | -- | -- | -- |
| 80-01-08 | 1500 | 330 | -- | -- | .26 | -- | -- | -- |
| 81-08-20 | 1815 | 330 | .0005 | .001 | -- | -- | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08CC08NN0011 LAT. 49D 0M 16S LONG. 118D 46M 28S
KETTLE RIVER AT MIDWAY, BRIDGE 0.5KM NORTH OF U.S. BORDER BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-09 | 1520 | 330 | 14.0 | 10.5 | 20.9 | -- | 8.1 | -- | 181. | .65 |
| 79-12-14 | 1300 | 330 | -- | .5 | 19.3 | 8.2 | 7.8 | 205. | 187. | .27 |
| 80-01-08 | 1515 | 330 | -- | .1 | 20.3 | -- | 8.3 | -- | 206. | .45 |
| 80-02-20 | 1545 | 330 | 3.0 | .5 | 20.1 | -- | 8.1 | -- | 179. | 1.40 |
| 80-04-01 | 1345 | 330 | 11.0 | 7.5 | 20.6 | -- | 8.2 | -- | 173. | .60 |
| 80-04-14 | 1600 | 330 | 13.0 | 10.5 | 18.5 | 8.5 | 8.1 | 150. | 144. | 3.00 |
| 80-05-14 | 1430 | 330 | 20.0 | 9.5 | 20.1 | -- | 7.4 | -- | 52. | 3.40 |
| 80-06-26 | 1415 | 330 | 19.0 | 14.0 | 21.1 | -- | 7.7 | -- | 100. | 2.50 |
| 80-07-30 | 1143 | 330 | 25.0 | 19.0 | 24.4 | -- | 7.9 | -- | 125. | .14 |
| 80-08-05 | 1249 | 330 | 28.0 | 18.0 | 24.5 | 7.3 | 8.1 | 140. | 130. | .42 |
| 80-09-15 | 1220 | 330 | 15.0 | 14.0 | 21.3 | -- | 7.9 | -- | 131. | .21 |
| 80-09-25 | 1430 | 330 | 24.0 | 11.0 | 18.9 | 7.9 | 8.0 | 130. | 130. | .29 |
| 80-10-21 | 0652 | 330 | 9.0 | 8.0 | 21.4 | 8.6 | 8.1 | 190. | 149. | .55 |
| 80-12-01 | 1348 | 330 | 1.0 | 2.0 | 22.6 | 8.7 | 8.1 | 180. | 146. | .40 |
| 81-02-09 | 1422 | 330 | -- | .5 | 20.3 | 7.8 | 7.7 | 130. | 128. | .28 |
| 81-03-31 | 1438 | 330 | 8.0 | 6.5 | 18.3 | -- | 7.9 | -- | 127. | .50 |
| 81-04-06 | 1246 | 330 | 8.0 | 8.0 | 18.9 | 8.5 | 8.0 | 160. | 126. | .68 |
| 81-05-05 | 1315 | 330 | 19.0 | 8.0 | 17.8 | -- | 7.1 | -- | 68. | 4.30 |
| 81-06-16 | 1355 | 330 | 21.0 | 11.0 | 21.8 | -- | 7.2 | -- | 63. | 1.60 |
| 81-08-20 | 1745 | 330 | 25.0 | 20.5 | 21.5 | 7.7 | 8.0 | 110. | 113. | .30 |
| 81-09-04 | 1400 | 330 | 21.0 | 16.0 | 23.8 | -- | 7.7 | -- | 111. | .30 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-09 | 1520 | 330 | L5. | .0 | 81.2 | 85.5 | 26.5 | 4.7 | .9 | 1.5 |
| 79-12-14 | 1300 | 330 | L5. | .0 | 84.0 | 86.4 | 27.0 | 4.6 | 1.1 | 5.2 |
| 80-01-08 | 1515 | 330 | L5. | .0 | 94.1 | 97.7 | 30.1 | 5.5 | 1.1 | 5.9 |
| 80-02-20 | 1545 | 330 | L5. | .0 | 80.2 | 83.4 | 25.5 | 4.5 | .9 | 5.0 |
| 80-04-01 | 1345 | 330 | L5. | .0 | 77.3 | 81.3 | 25.0 | 4.5 | 1.0 | 5.0 |
| 80-04-14 | 1600 | 330 | 5. | .0 | 62.8 | 66.1 | 21.1 | 3.3 | 1.1 | 4.5 |
| 80-05-14 | 1430 | 330 | 45. | .0 | 22.6 | 22.5 | 8.7 | .2 | .4 | 1.9 |
| 80-06-26 | 1415 | 330 | 15. | .0 | 44.1 | 47.9 | 14.9 | 2.6 | .7 | 3.1 |
| 80-07-30 | 1143 | 330 | 15. | .0 | 54.7 | 54.0 | 17.5 | 2.5 | .8 | 3.5 |
| 80-08-05 | 1249 | 330 | 15. | .0 | 57.3 | 57.2 | 17.9 | 3.0 | .8 | 3.6 |
| 80-09-15 | 1220 | 330 | 10. | .0 | 56.9 | 57.8 | 17.8 | 3.2 | .9 | 3.5 |
| 80-09-25 | 1430 | 330 | 15. | .0 | 56.7 | 57.2 | 17.1 | 3.5 | .8 | 3.5 |
| 80-10-21 | 0652 | 330 | 10. | .0 | 70.0 | 69.8 | 22.6 | 3.2 | .9 | 4.2 |
| 80-12-01 | 1348 | 330 | 10. | .0 | 65.4 | 66.8 | 20.5 | 3.8 | 1.2 | 3.1 |
| 81-02-09 | 1422 | 330 | 5. | .0 | 56.4 | 60.0 | 18.4 | 3.4 | .7 | 3.7 |
| 81-03-31 | 1438 | 330 | 20. | .0 | 53.4 | 55.6 | 17.7 | 3.0 | .8 | 3.7 |
| 81-04-06 | 1246 | 330 | 20. | .0 | 53.9 | 56.6 | 18.0 | 2.8 | .8 | 3.7 |
| 81-05-05 | 1315 | 330 | 35. | .0 | 26.7 | 28.9 | 10.2 | .8 | .5 | 2.1 |
| 81-06-16 | 1355 | 330 | 30. | .0 | 25.0 | 27.3 | 8.7 | 1.4 | .6 | 2.0 |
| 81-08-20 | 1745 | 330 | 20. | .0 | 49.7 | 51.6 | 15.7 | 3.0 | .7 | 3.2 |
| 81-09-04 | 1400 | 330 | 15. | .0 | 47.6 | 51.6 | 12.8 | 4.9 | .8 | 3.1 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-09 | 1520 | 330 | .6 | .310 | 11.8 | 12.2 | .007 | -- | -- | -- |
| 79-12-14 | 1300 | 330 | .8 | .320 | 12.4 | 11.2 | .058 | -- | -- | -- |
| 80-01-08 | 1515 | 330 | .8 | .380 | 13.1 | 14.2 | .053 | -- | -- | -- |
| 80-02-20 | 1545 | 330 | .9 | .330 | 12.1 | 11.3 | .074 | -- | -- | -- |
| 80-04-01 | 1345 | 330 | 1.4 | .320 | 11.4 | 11.7 | .031 | -- | -- | -- |
| 80-04-14 | 1600 | 330 | 1.6 | .270 | 12.4 | 8.0 | .016 | -- | -- | -- |
| 80-05-14 | 1430 | 330 | .6 | .100 | 10.2 | 2.9 | L.002 | -- | -- | -- |
| 80-06-26 | 1415 | 330 | .6 | .155 | 13.0 | 4.4 | L.002 | -- | -- | -- |
| 80-07-30 | 1143 | 330 | .5 | .200 | 12.8 | 6.5 | .040 | -- | -- | -- |
| 80-08-05 | 1249 | 330 | .5 | .214 | 12.9 | 5.3 | .015 | -- | -- | -- |
| 80-09-15 | 1220 | 330 | .6 | .220 | 12.4 | 7.0 | .008 | -- | -- | -- |
| 80-09-25 | 1430 | 330 | .9 | .230 | 12.1 | 7.0 | .005 | -- | -- | -- |
| 80-10-21 | 0652 | 330 | 1.0 | .240 | 11.8 | 8.2 | .019 | -- | -- | -- |
| 80-12-01 | 1348 | 330 | 1.2 | .210 | 12.1 | 8.8 | .139 | -- | -- | -- |
| 81-02-09 | 1422 | 330 | .7 | .210 | 12.4 | 6.9 | .057 | -- | -- | -- |
| 81-03-31 | 1438 | 330 | .9 | .200 | 13.0 | 6.3 | .012 | -- | -- | -- |
| 81-04-06 | 1246 | 330 | .9 | .140 | 13.2 | 6.0 | .026 | -- | -- | -- |
| 81-05-05 | 1315 | 330 | .6 | .160 | 12.4 | 3.0 | .014 | -- | -- | -- |
| 81-06-16 | 1355 | 330 | .5 | .140 | 11.2 | 2.9 | L.002 | -- | -- | -- |
| 81-08-20 | 1745 | 330 | .6 | .150 | 12.4 | 5.0 | .022 | .148 | 13.5 | 2.1 |
| 81-09-04 | 1400 | 330 | .5 | .130 | 12.2 | 4.5 | .041 | .118 | 12.9 | 1.5 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08NE008NWOOT1
KETTLE RIVER AT MIDWAY. BRIDGE 0.5KM NORTH OF U.S. BORDER. LAT. 49D 0M 18S LONG. 118D 48M 28S BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-09 | 1520 | 330 | -- | L10. | 124. | L10. | 100. | -- | -- | -- |
| 79-12-14 | 1300 | 330 | -- | L10. | 113. | L10. | 105. | -- | -- | -- |
| 80-01-08 | 1515 | 330 | -- | L10. | 126. | L10. | 105. | -- | -- | -- |
| 80-02-20 | 1545 | 330 | -- | L10. | 118. | L10. | 106. | -- | -- | -- |
| 80-04-01 | 1345 | 330 | -- | L10. | 125. | L10. | 98. | -- | -- | -- |
| 80-04-14 | 1600 | 330 | -- | 17. | 96. | 12. | 58. | -- | -- | -- |
| 80-05-14 | 1430 | 330 | -- | 10. | 60. | L10. | 36. | -- | -- | -- |
| 80-06-26 | 1415 | 330 | -- | L10. | 100. | L10. | 49. | -- | -- | -- |
| 80-07-30 | 1143 | 330 | -- | L10. | 87. | L10. | 70. | -- | -- | -- |
| 80-08-05 | 1249 | 330 | -- | L10. | 87. | L10. | 76. | -- | -- | -- |
| 80-09-15 | 1220 | 330 | -- | L10. | 85. | L10. | 64. | -- | -- | -- |
| 80-09-25 | 1430 | 330 | -- | L10. | 95. | L10. | 62. | -- | -- | -- |
| 80-10-21 | 0852 | 330 | -- | L10. | 84. | L10. | 74. | -- | -- | -- |
| 80-12-01 | 1348 | 330 | -- | L10. | 88. | L10. | 81. | -- | -- | -- |
| 81-02-09 | 1422 | 330 | -- | L10. | 97. | L10. | 75. | -- | -- | -- |
| 81-03-31 | 1438 | 330 | -- | L10. | 84. | L10. | 65. | -- | -- | -- |
| 81-04-06 | 1246 | 330 | -- | L10. | 90. | L10. | 59. | -- | -- | -- |
| 81-05-05 | 1315 | 330 | -- | 24. | 74. | 15. | 37. | -- | -- | -- |
| 81-06-16 | 1355 | 330 | -- | L10. | 59. | L10. | 39. | -- | -- | -- |
| 81-08-20 | 1745 | 330 | -- | L10. | 89. | L10. | 63. | L .05 | L .001 | -- |
| 81-09-04 | 1400 | 330 | -- | L10. | 95. | L10. | 66. | L .05 | L .001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-09 | 1520 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-12-14 | 1300 | 330 | .0008 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-01-08 | 1515 | 330 | .0009 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-02-20 | 1545 | 330 | .0006 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-01 | 1345 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-04-14 | 1600 | 330 | .0005 | L .0001 | -- | -- | -- | -- | -- | -- |
| 80-05-14 | 1430 | 330 | .0002 | L .0001 | -- | -- | -- | -- | -- | -- |
| 80-06-26 | 1415 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-30 | 1143 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-08-05 | 1249 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-15 | 1220 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-25 | 1430 | 330 | .0003 | L .0001 | -- | -- | -- | -- | -- | -- |
| 80-10-21 | 0852 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-12-01 | 1348 | 330 | .0003 | L .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-09 | 1422 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-03-31 | 1438 | 330 | .0002 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1246 | 330 | .0002 | L .0001 | -- | -- | -- | -- | -- | -- |
| 81-05-05 | 1315 | 330 | .0001 | L .0001 | -- | -- | -- | -- | -- | -- |
| 81-06-16 | 1355 | 330 | .0001 | L .0001 | -- | -- | -- | -- | -- | -- |
| 81-08-20 | 1745 | 330 | .0003 | L .0001 | -- | .010 | -- | L .001 | .05 | -- |
| 81-09-04 | 1400 | 330 | .0005 | L .0001 | -- | .010 | -- | .007 | -- | .045 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08NB008NN0011 LAT. 49D 0M 18S LONG 118D 46M 28S
KETTLE RIVER AT MIDWAY. BRIDGE 0.5KM NORTH OF U.S. BORDER BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-10-09 | 1520 | 330 | -- | -- | 3.00 | -- | -- | -- |
| 80-01-06 | 1200 | 330 | -- | -- | -- | -- | -- | 1.56 |
| 80-02-20 | 1545 | 330 | -- | -- | 2.35 | -- | -- | -- |
| 80-04-01 | 1345 | 330 | -- | -- | 8.04 | -- | -- | -- |
| 80-04-14 | 1600 | 330 | -- | -- | 19.40 | -- | -- | -- |
| 80-05-07 | 1200 | 330 | -- | -- | -- | -- | 379.00 | -- |
| 80-05-14 | 1430 | 330 | -- | -- | 179.00 | -- | -- | -- |
| 80-06-26 | 1415 | 330 | -- | -- | 61.20 | -- | -- | -- |
| 80-07-30 | 1143 | 330 | -- | -- | 16.90 | -- | -- | -- |
| 80-08-05 | 1249 | 330 | -- | -- | 14.30 | -- | -- | -- |
| 80-09-15 | 1220 | 330 | -- | -- | 15.00 | -- | -- | -- |
| 80-09-25 | 1430 | 330 | -- | -- | 11.50 | -- | -- | -- |
| 80-10-21 | 0852 | 330 | -- | -- | 7.45 | -- | -- | -- |
| 80-12-01 | 1348 | 330 | -- | -- | 8.10 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 41.20 | -- | -- |
| 81-01-17 | 1200 | 330 | -- | -- | -- | -- | -- | 5.35 |
| 81-03-31 | 1438 | 330 | -- | -- | 26.00 | -- | -- | -- |
| 81-04-06 | 1246 | 330 | -- | -- | 26.88 | -- | -- | -- |
| 81-05-05 | 1315 | 330 | -- | -- | 148.95 | -- | -- | -- |
| 81-05-26 | 1200 | 330 | -- | -- | -- | -- | 382.00 | -- |
| 81-06-16 | 1355 | 330 | -- | -- | 175.00 | -- | -- | -- |
| 81-08-20 | 1745 | 330 | L.0005 | L.001 | 22.90 | -- | -- | -- |
| 81-09-04 | 1400 | 330 | L.0005 | .001 | 19.90 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 57.80 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08NN021 LAT 49D 0M 0S LONG 118D 29M 48S
KETTLE RIVER AT U.S. BORDER CARSON ROAD BRIDGE 5KM SW OF GRAND FORKS. BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1145 | 330 | -- | 11.5 | 19.3 | -- | 8.1 | -- | 218. | 90 |
| 79-12-14 | 1100 | 330 | -- | 1.0 | 19.6 | 8.2 | 7.9 | 240. | 233 | 30 |
| 80-01-08 | 1040 | 330 | -10.0 | 0 | 20.3 | -- | 8.2 | -- | 250. | 44 |
| 80-03-28 | 1320 | 330 | -- | 5.5 | 20.7 | -- | 8.3 | -- | 214. | 78 |
| 80-04-14 | 1515 | 330 | 12.0 | 12.0 | 22.4 | 8.7 | 8.3 | 185. | 189 | 3.70 |
| 80-04-30 | 1330 | 330 | -- | 5.0 | 22.1 | -- | 7.1 | -- | 52 | 17.50 |
| 80-05-21 | 1060 | 330 | 18.0 | 10.0 | 21.3 | -- | 7.5 | -- | 82 | 1.40 |
| 80-06-27 | 1130 | 330 | 18.0 | 13.0 | 21.2 | -- | 7.6 | -- | 123 | 1.80 |
| 80-08-05 | 1352 | 330 | 31.0 | 19.0 | 24.3 | 7.2 | 8.2 | 205. | 186 | .23 |
| 80-09-03 | 1315 | 330 | 15.0 | 19.0 | 21.3 | -- | 8.0 | -- | 198 | .44 |
| 80-09-25 | 1330 | 330 | 24.5 | 14.0 | 19.6 | 7.8 | 8.0 | 135. | 163 | .28 |
| 80-10-14 | 1445 | 330 | 8.0 | 8.5 | 22.2 | -- | 8.2 | -- | 190 | .84 |
| 80-11-25 | 1451 | 330 | 2.0 | .5 | 22.7 | -- | 8.0 | -- | 201 | .20 |
| 80-12-01 | 1459 | 330 | 1.0 | 2.0 | 22.9 | 8.6 | 8.1 | 240. | 202 | .70 |
| 81-01-13 | 1428 | 330 | 2.0 | .5 | 19.6 | -- | 8.0 | -- | 174. | .25 |
| 81-02-09 | 1521 | 330 | -- | .5 | 16.5 | 7.7 | 7.9 | 200. | 179 | .17 |
| 81-02-13 | 1045 | 330 | -- | -- | 21.1 | -- | 7.9 | -- | 195 | .18 |
| 81-03-05 | 1301 | 330 | 5.0 | 2.0 | 21.3 | -- | 8.1 | -- | 179 | .55 |
| 81-04-06 | 1352 | 330 | 8.5 | 8.5 | 19.8 | 5.8 | 8.1 | 160. | 161 | .59 |
| 81-04-07 | 0922 | 330 | 9.0 | 4.0 | 18.8 | -- | 8.1 | -- | 161 | .50 |
| 81-05-22 | 1255 | 330 | 19.0 | 5.5 | 23.6 | -- | 7.0 | -- | 51 | 23.00 |
| 81-08-13 | 1315 | 330 | 17.0 | 12.0 | 15.5 | -- | 7.7 | -- | 94 | 1.40 |
| 81-08-20 | 1845 | 330 | 29.0 | 22.5 | 21.3 | 7.8 | 8.1 | 135. | 140 | .40 |
| 81-10-07 | 1507 | 330 | 10.0 | 11.0 | 19.7 | -- | 7.9 | -- | 144 | .30 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1145 | 330 | L5. | .0 | 98.8 | 109.0 | 30.2 | 8.2 | 1.1 | 6.5 |
| 79-12-14 | 1100 | 330 | L5. | .0 | 108.0 | 109.0 | 32.8 | 6.6 | 1.3 | 6.7 |
| 80-01-08 | 1040 | 330 | 5. | .0 | 116.0 | 117.0 | 35.6 | 6.8 | 1.3 | 7.4 |
| 80-03-28 | 1320 | 330 | 5. | .0 | 98.6 | 99.2 | 29.4 | 6.3 | 1.4 | 6.2 |
| 80-04-14 | 1515 | 330 | L5. | .0 | 82.7 | 85.2 | 26.8 | 4.7 | 1.2 | 5.7 |
| 80-04-30 | 1330 | 330 | 110. | .0 | 19.3 | 23.9 | 8.5 | .6 | .8 | 1.8 |
| 80-05-21 | 1060 | 330 | 40. | .0 | 33.1 | 37.9 | 13.9 | .8 | .5 | 2.4 |
| 80-06-27 | 1130 | 330 | 15. | .0 | 55.5 | 61.9 | 17.7 | 3.0 | .9 | 3.5 |
| 80-08-05 | 1352 | 330 | 15. | .0 | 77.3 | 80.0 | 24.9 | 4.3 | 1.6 | 5.3 |
| 80-09-03 | 1315 | 330 | 10. | .0 | 87.6 | 90.0 | 26.7 | 5.7 | 1.2 | 5.8 |
| 80-09-25 | 1330 | 330 | 10. | .0 | 73.9 | 74.2 | 22.2 | 4.6 | 1.1 | 4.8 |
| 80-10-14 | 1445 | 330 | 10. | .0 | 87.4 | 89.2 | 27.1 | 5.2 | 1.2 | 5.7 |
| 80-11-25 | 1451 | 330 | 5. | .0 | 85.7 | 87.4 | 25.1 | 6.0 | 1.1 | 5.5 |
| 80-12-01 | 1459 | 330 | 5 | .0 | 84.7 | 88.2 | 27.3 | 4.9 | 1.3 | 5.5 |
| 81-01-13 | 1428 | 330 | 10. | .0 | 78.1 | 81.6 | 24.1 | 5.2 | .9 | 5.1 |
| 81-02-09 | 1521 | 330 | 10. | .0 | 77.2 | 81.6 | 24.5 | 5.0 | 1.0 | 5.0 |
| 81-02-13 | 1045 | 330 | 10. | .0 | 83.3 | 88.8 | 25.7 | 6.0 | 1.1 | 5.5 |
| 81-03-05 | 1301 | 330 | 10. | .0 | 75.1 | 80.0 | 24.5 | 4.6 | .9 | 5.0 |
| 81-04-06 | 1352 | 330 | 20. | .0 | 67.8 | 70.9 | 22.0 | 3.9 | 1.1 | 4.6 |
| 81-04-07 | 0922 | 330 | 20. | .0 | 68.8 | 72.2 | 22.3 | 4.0 | .9 | 4.6 |
| 81-06-22 | 1255 | 330 | 40. | .0 | 18.5 | 21.5 | 7.0 | 1.0 | .7 | 1.5 |
| 81-08-13 | 1315 | 330 | 25. | .0 | 39.5 | 42.7 | 12.8 | 2.6 | .6 | 2.5 |
| 81-08-20 | 1845 | 330 | 15. | .0 | 52.0 | 59.6 | 17.3 | 4.0 | .8 | 3.8 |
| 81-10-07 | 1507 | 330 | 20. | .0 | 52.1 | 57.5 | 17.3 | 5.9 | .9 | 4.0 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NN0021 LAT. 49D 0M 0S LONG. 118D 29M 48S
KETTLE RIVER AT U.S. BORDER. CARSON ROAD BRIDGE 5KM SW OF GRAND FORKS. BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1145 | 330 | 1.1 | .378 | 11.6 | 16.2 | .023 | -- | -- | -- |
| 79-12-14 | 1100 | 330 | 1.1 | .350 | 12.9 | 16.5 | .117 | -- | -- | -- |
| 80-01-08 | 1040 | 330 | 1.2 | .340 | 13.0 | 16.9 | .147 | -- | -- | -- |
| 80-03-28 | 1320 | 330 | 1.8 | .310 | 9.0 | 15.6 | L.002 | -- | -- | -- |
| 80-04-14 | 1515 | 330 | 1.7 | .275 | 11.3 | 14.0 | .002 | -- | -- | -- |
| 80-04-30 | 1330 | 330 | .8 | .110 | 10.6 | 4.3 | .032 | -- | -- | -- |
| 80-05-21 | 1050 | 330 | .8 | .115 | 11.5 | 5.3 | .024 | -- | -- | -- |
| 80-06-27 | 1130 | 330 | .7 | .176 | 13.8 | 6.1 | .012 | -- | -- | -- |
| 80-08-05 | 1352 | 330 | 1.4 | .228 | 12.8 | 8.5 | .017 | -- | -- | -- |
| 80-09-03 | 1315 | 330 | 1.2 | .268 | 13.0 | 10.0 | .008 | -- | -- | -- |
| 80-09-25 | 1330 | 330 | 1.1 | .230 | 12.2 | 10.6 | .025 | -- | -- | -- |
| 80-10-14 | 1445 | 330 | 1.2 | .230 | 12.8 | 11.7 | .010 | -- | -- | -- |
| 80-11-25 | 1451 | 330 | 1.2 | .270 | 13.1 | 12.1 | .081 | -- | -- | -- |
| 80-12-01 | 1459 | 330 | 1.3 | .200 | 12.7 | 12.1 | .148 | -- | -- | -- |
| 81-01-13 | 1428 | 330 | 1.2 | .230 | 12.2 | 11.5 | .090 | -- | -- | -- |
| 81-02-09 | 1521 | 330 | 1.1 | .220 | 13.5 | 11.0 | .109 | -- | -- | -- |
| 81-02-13 | 1045 | 330 | 1.1 | .240 | 13.6 | 12.2 | .116 | -- | -- | -- |
| 81-03-05 | 1301 | 330 | 1.2 | .240 | 12.2 | 9.6 | .064 | -- | -- | -- |
| 81-04-06 | 1352 | 330 | 1.3 | .230 | 13.6 | 8.9 | .044 | -- | -- | -- |
| 81-04-07 | 0922 | 330 | 1.4 | .230 | 13.8 | 9.1 | .033 | -- | -- | -- |
| 81-05-22 | 1255 | 330 | .6 | .120 | 10.4 | 2.7 | .015 | -- | -- | -- |
| 81-08-13 | 1315 | 330 | .5 | .120 | 11.7 | 5.4 | .015 | -- | -- | -- |
| 81-08-20 | 1645 | 330 | .7 | .160 | 13.0 | 7.3 | .030 | .140 | 16.4 | 2.0 |
| 81-10-07 | 1507 | 330 | .7 | .160 | 12.6 | 8.2 | .091 | 198 | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1145 | 330 | -- | L10. | 146. | L10. | 113. | -- | -- | -- |
| 79-12-14 | 1100 | 330 | -- | L10. | 135. | L10. | 126. | -- | -- | -- |
| 80-01-08 | 1040 | 330 | -- | L10. | 152. | L10. | 120. | -- | -- | -- |
| 80-03-28 | 1320 | 330 | -- | L10. | 142. | L10. | 94. | -- | -- | -- |
| 80-04-14 | 1515 | 330 | -- | 24. | 121. | 20. | 99. | -- | -- | -- |
| 80-04-30 | 1330 | 330 | -- | 86. | 55. | 76. | 30. | -- | -- | -- |
| 80-05-21 | 1050 | 330 | -- | 15. | 88. | 12. | 52. | -- | -- | -- |
| 80-06-27 | 1130 | 330 | -- | L10. | 100. | L10. | 68. | -- | -- | -- |
| 80-08-05 | 1352 | 330 | -- | L10. | 124. | L10. | 101. | -- | -- | -- |
| 80-09-03 | 1315 | 330 | -- | L10. | 131. | L10. | 98. | -- | -- | -- |
| 80-09-25 | 1330 | 330 | -- | L10. | 111. | L10. | 82. | -- | -- | -- |
| 80-10-14 | 1445 | 330 | -- | L10. | 110. | L10. | 83. | -- | -- | -- |
| 80-11-25 | 1451 | 330 | -- | L10. | 115. | L10. | 103. | -- | -- | -- |
| 80-12-01 | 1459 | 330 | -- | L10. | 139. | L10. | 105. | -- | -- | -- |
| 81-01-13 | 1428 | 330 | -- | L10. | 105. | L10. | 99. | -- | -- | -- |
| 81-02-09 | 1521 | 330 | -- | L10. | 148. | L10. | 98. | -- | -- | -- |
| 81-02-13 | 1045 | 330 | -- | L10. | 141. | L10. | 111. | -- | -- | -- |
| 81-03-05 | 1301 | 330 | -- | L10. | 131. | L10. | 88. | -- | -- | -- |
| 81-04-06 | 1352 | 330 | -- | L10. | 112. | L10. | 90. | -- | -- | -- |
| 81-04-07 | 0922 | 330 | -- | L10. | 120. | L10. | 98. | -- | -- | -- |
| 81-05-22 | 1255 | 330 | -- | 98. | 49. | 86. | 21. | -- | -- | -- |
| 81-08-13 | 1315 | 330 | -- | L10. | 66. | L10. | 42. | -- | -- | -- |
| 81-08-20 | 1645 | 330 | -- | L10. | 100. | L10. | 80. | L.05 | L.001 | -- |
| 81-10-07 | 1507 | 330 | -- | L10. | 91. | L10. | 74. | -- | .008 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 008CG8NN0021 LAT. 49D 0M 0S LONG. 118D 29M 48S
KETTLE RIVER AT U.S. BORDER, CARSON ROAD BRIDGE 5KM SW OF GRAND FORKS BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE ZN MG/L | 26304P IRON EXTRBLE FE MG/L | 26305P IRON EXTRBLE FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1145 | 330 | .0002 | .0002 | -- | -- | -- | -- | -- | -- |
| 79-12-14 | 1100 | 330 | .0008 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-01-08 | 1040 | 330 | .0009 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-03-28 | 1320 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-04-14 | 1515 | 330 | .0006 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-04-30 | 1330 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-05-21 | 1050 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-27 | 1130 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-08-05 | 1352 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-09-03 | 1315 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-25 | 1330 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-10-14 | 1445 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-11-25 | 1451 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-12-01 | 1459 | 330 | .0007 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-01-13 | 1428 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-02-09 | 1521 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-13 | 1045 | 330 | .0006 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-03-05 | 1301 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1352 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-07 | 0922 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-22 | 1255 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-13 | 1315 | 330 | .0002 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-20 | 1645 | 330 | .0003 | .0001 | -- | .020 | -- | L.001 | .07 | -- |
| 81-10-07 | 1507 | 330 | .0006 | L.0001 | -- | L.010 | -- | .018 | .07 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1145 | 330 | -- | -- | 4.56 | -- | -- | -- |
| 79-12-14 | 1100 | 330 | -- | -- | 4.73 | -- | -- | -- |
| 80-01-07 | 1200 | 330 | -- | -- | -- | -- | -- | 2.37 |
| 80-01-08 | 1040 | 330 | -- | -- | 4.23 | -- | -- | -- |
| 80-03-28 | 1320 | 330 | -- | -- | 14.10 | -- | -- | -- |
| 80-04-14 | 1515 | 330 | -- | -- | 17.50 | -- | -- | -- |
| 80-04-30 | 1200 | 330 | -- | -- | -- | -- | 400.00 | -- |
| | 1330 | 330 | -- | -- | 400.00 | -- | -- | -- |
| 80-05-21 | 1050 | 330 | -- | -- | 164.60 | -- | -- | -- |
| 80-06-27 | 1130 | 330 | -- | -- | 79.50 | -- | -- | -- |
| 80-08-05 | 1352 | 330 | -- | -- | 20.04 | -- | -- | -- |
| 80-09-03 | 1315 | 330 | -- | -- | 11.64 | -- | -- | -- |
| 80-09-25 | 1330 | 330 | -- | -- | 14.71 | -- | -- | -- |
| 80-10-14 | 1445 | 330 | -- | -- | 10.56 | -- | -- | -- |
| 80-11-25 | 1451 | 330 | -- | -- | 9.16 | -- | -- | -- |
| 80-12-01 | 1459 | 330 | -- | -- | 11.58 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 49.14 | -- | -- |
| 81-01-13 | 1428 | 330 | -- | -- | 12.67 | -- | -- | -- |
| 81-02-13 | 1045 | 330 | -- | -- | 13.12 | -- | -- | -- |
| 81-03-05 | 1301 | 330 | -- | -- | 22.60 | -- | -- | -- |
| 81-04-06 | 1352 | 330 | -- | -- | 38.30 | -- | -- | -- |
| 81-04-07 | 0922 | 330 | -- | -- | 40.70 | -- | -- | -- |
| 81-05-22 | 1255 | 330 | -- | -- | 344.00 | -- | -- | -- |
| 81-05-27 | 1200 | 330 | -- | -- | -- | -- | 416.00 | -- |
| 81-08-13 | 1315 | 330 | -- | -- | 40.00 | -- | -- | -- |
| 81-08-20 | 1645 | 330 | L.0005 | .001 | 33.00 | -- | -- | -- |
| 81-10-07 | 1507 | 330 | L.0005 | .003 | 21.20 | -- | -- | -- |
| 81-12-14 | 1200 | 330 | -- | -- | -- | -- | -- | 5.90 |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 66.80 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NN0022
KETTLE RIVER AT GILPIN FOOTBRIDGE. 11KM ESE OF GRAND FORKS LAT. 49D 0M 29S LONG. 118D 18M 11S
BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1307 | 330 | 21.0 | 11.0 | 21.1 | -- | 8.2 | -- | 202. | .75 |
| 79-12-14 | 0900 | 330 | -- | 1.0 | 19.5 | 8.0 | 7.7 | 200. | 193. | .46 |
| 80-01-08 | 1118 | 330 | -6.0 | .5 | 20.2 | -- | 8.1 | -- | 189. | .37 |
| 80-04-14 | 1430 | 330 | 22.0 | 11.0 | 18.3 | 8.4 | 7.9 | 120. | 116. | 5.20 |
| 80-04-30 | 1400 | 330 | 28.0 | 5.0 | 22.3 | -- | 7.2 | -- | 47. | 22.00 |
| 80-06-27 | 1405 | 330 | 20.0 | 13.0 | 21.1 | -- | 7.7 | -- | 108. | 2.40 |
| 80-08-05 | 1428 | 330 | 29.0 | 19.0 | 24.6 | 7.9 | 8.1 | 160. | 158. | .24 |
| 80-09-03 | 1443 | 330 | 19.0 | 15.5 | 21.3 | -- | 7.9 | -- | 172. | .34 |
| 80-09-25 | 1230 | 330 | 19.0 | 13.0 | 18.3 | 7.8 | 8.0 | 160 | 160. | .34 |
| 80-10-14 | 1420 | 330 | 8.0 | 8.5 | 22.1 | -- | 7.9 | -- | 178. | .48 |
| 80-11-25 | 1525 | 330 | -- | 1.0 | 22.7 | -- | 8.0 | -- | 172. | .30 |
| 80-12-01 | 1538 | 330 | 1.5 | 3.0 | 22.8 | 8.6 | 8.1 | 240. | 173. | .42 |
| 80-12-18 | 1352 | 330 | 2.5 | 1.0 | 21.6 | -- | 7.5 | -- | 166. | .47 |
| 81-01-13 | 1451 | 330 | 2.0 | 1.0 | 19.4 | -- | 7.5 | -- | 139. | .29 |
| 81-02-09 | 1614 | 330 | -1.5 | .5 | 16.6 | 7.7 | 7.8 | 160. | 140. | .17 |
| 81-02-13 | 1122 | 330 | -- | .5 | 21.1 | -- | 7.7 | -- | 145. | .18 |
| 81-03-05 | 1351 | 330 | 8.0 | 2.0 | 21.2 | -- | 7.8 | -- | 131. | .44 |
| 81-04-06 | 1433 | 330 | 8.0 | 8.0 | 18.6 | 8.3 | 7.9 | 130. | 121. | .53 |
| 81-04-07 | 1300 | 330 | 10.0 | 4.0 | 19.9 | -- | 7.8 | -- | 122. | .48 |
| 81-05-22 | 1340 | 330 | 20.0 | 5.5 | 23.9 | -- | 6.6 | -- | 45. | 23.00 |
| 81-07-14 | 1417 | 330 | 18.0 | 12.0 | 15.4 | -- | 7.6 | -- | 78. | 1.00 |
| 81-08-20 | 1545 | 330 | 26.0 | 21.0 | 20.6 | 7.8 | 8.1 | 145. | 129. | .30 |
| 81-10-09 | 1253 | 330 | 13.0 | 8.5 | 19.7 | -- | 7.5 | -- | 82. | .70 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10503L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1307 | 330 | 5. | .0 | 88.1 | 99.4 | 28.7 | 6.7 | 1.1 | 5.9 |
| 79-12-14 | 0900 | 330 | L5. | .0 | 85.1 | 89.8 | 26.8 | 5.6 | 1.2 | 5.5 |
| 80-01-08 | 1118 | 330 | L5. | .0 | 87.5 | 90.9 | 27.7 | 5.3 | 1.2 | 5.9 |
| 80-04-14 | 1430 | 330 | 5. | .0 | 50.8 | 52.3 | 16.0 | 3.0 | .8 | 3.3 |
| 80-04-30 | 1400 | 330 | 110. | .0 | 16.8 | 20.1 | 7.6 | .2 | .8 | 1.5 |
| 80-06-27 | 1405 | 330 | 15. | .0 | 47.3 | 48.6 | 15.0 | 2.7 | .6 | 3.0 |
| 80-08-05 | 1428 | 330 | 15. | .0 | 67.9 | 68.2 | 20.8 | 3.9 | 1.0 | 4.5 |
| 80-09-03 | 1443 | 330 | 10. | .0 | 77.0 | 78.6 | 23.6 | 4.8 | 1.1 | 5.0 |
| 80-09-25 | 1230 | 330 | 15. | .0 | 69.6 | 70.0 | 21.8 | 3.8 | 1.1 | 4.4 |
| 80-10-14 | 1420 | 330 | 15. | .0 | 79.3 | 80.2 | 23.0 | 5.5 | 1.1 | 5.0 |
| 80-11-25 | 1525 | 330 | 5. | .0 | 74.1 | 78.7 | 23.7 | 4.7 | 1.0 | 4.9 |
| 80-12-01 | 1538 | 330 | 5. | .0 | 73.4 | 76.7 | 24.4 | 3.8 | 1.6 | 4.7 |
| 80-12-18 | 1352 | 330 | 10. | .0 | 69.3 | 72.7 | 21.2 | 4.8 | .9 | 4.6 |
| 81-01-13 | 1451 | 330 | 10. | .0 | 60.7 | 64.8 | 19.0 | 4.2 | .7 | 4.0 |
| 81-02-09 | 1614 | 330 | 10. | .0 | 59.9 | 68.0 | 18.8 | 5.1 | .8 | 3.9 |
| 81-02-13 | 1122 | 330 | 10. | .0 | 60.9 | 68.3 | 19.5 | 4.8 | .8 | 4.1 |
| 81-03-05 | 1351 | 330 | 10. | .0 | 54.8 | 58.0 | 18.1 | 3.1 | .7 | 3.7 |
| 81-04-06 | 1433 | 330 | 20. | .0 | 50.8 | 52.7 | 16.6 | 2.7 | .7 | 3.4 |
| 81-04-07 | 1300 | 330 | 15. | .0 | 50.8 | 52.7 | 16.5 | 2.8 | .7 | 3.4 |
| 81-05-22 | 1340 | 330 | 40. | .0 | 17.2 | 18.5 | 5.8 | 1.0 | .6 | 1.3 |
| 81-07-14 | 1417 | 330 | 20. | .0 | 32.9 | 34.7 | 10.5 | 2.1 | .4 | 2.1 |
| 81-08-20 | 1545 | 330 | 15. | .0 | 55.9 | 59.6 | 17.3 | 4.0 | .8 | 3.6 |
| 81-10-09 | 1253 | 330 | 25. | .0 | 37.7 | 39.7 | 8.7 | 4.4 | .6 | 2.4 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NN0022
KETTLE RIVER AT GILPIN FOOTBRIDGE. 11KM ESE OF GRAND FORKS LAT 49D 0M 29S LONG 118D 18M 11S
BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1307 | 330 | 1.1 | 295 | 10.6 | 15.2 | 135 | -- | -- | -- |
| 79-12-14 | 0900 | 330 | 1.1 | 280 | 12.3 | 13.8 | 240 | -- | -- | -- |
| 80-01-08 | 1118 | 330 | 1.3 | 295 | 12.4 | 14.2 | 380 | -- | -- | -- |
| 80-04-14 | 1430 | 330 | .5 | 190 | 11.8 | 7.0 | .013 | -- | -- | -- |
| 80-04-30 | 1400 | 330 | .7 | L.050 | 9.9 | 3.5 | 034 | -- | -- | -- |
| 80-06-27 | 1405 | 330 | .6 | .154 | 12.8 | 5.0 | .005 | -- | -- | -- |
| 80-08-05 | 1428 | 330 | 1.1 | .211 | 12.2 | 8.0 | 039 | -- | -- | -- |
| 80-09-03 | 1443 | 330 | 1.1 | .245 | 11.9 | 8.0 | 159 | -- | -- | -- |
| 80-09-25 | 1230 | 330 | .9 | .210 | 10.8 | 9.7 | 018 | -- | -- | -- |
| 80-10-14 | 1420 | 330 | 1.3 | 220 | 11.7 | 10.7 | 062 | -- | -- | -- |
| 80-11-25 | 1525 | 330 | 1.1 | 250 | 12.5 | 10.9 | 167 | -- | -- | -- |
| 80-12-01 | 1538 | 330 | 1.7 | .200 | 12.0 | 11.1 | 184 | -- | -- | -- |
| 80-12-18 | 1352 | 330 | 1.0 | .240 | 11.4 | 10.3 | 143 | -- | -- | -- |
| 81-01-13 | 1451 | 330 | .9 | .200 | 11.6 | 9.1 | 120 | -- | -- | -- |
| 81-02-09 | 1614 | 330 | .8 | .180 | 12.0 | 8.7 | 108 | -- | -- | -- |
| 81-02-13 | 1122 | 330 | .9 | .180 | 12.4 | 9.0 | 135 | -- | -- | -- |
| 81-03-05 | 1351 | 330 | .8 | .190 | 11.5 | 7.1 | .066 | -- | -- | -- |
| 81-04-06 | 1433 | 330 | .8 | .180 | 12.8 | 6.6 | 042 | -- | -- | -- |
| 81-04-07 | 1300 | 330 | .8 | .110 | 12.7 | 6.9 | 030 | -- | -- | -- |
| 81-05-22 | 1340 | 330 | .5 | 100 | 9.5 | 1.4 | 017 | -- | -- | -- |
| 81-07-14 | 1417 | 330 | .5 | 110 | 11.0 | 4.0 | L.002 | -- | -- | -- |
| 81-08-20 | 1545 | 330 | .7 | 160 | 12.5 | 6.6 | 048 | 275 | 15.5 | 1.2 |
| 81-10-09 | 1253 | 330 | .6 | .120 | 10.7 | 3.9 | 034 | 133 | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1307 | 330 | -- | L10. | 127. | L10. | 119. | -- | -- | -- |
| 79-12-14 | 0900 | 330 | -- | L10. | 127. | L10. | 113. | -- | -- | -- |
| 80-01-08 | 1118 | 330 | -- | L10. | 131. | L10. | 94. | -- | -- | -- |
| 80-04-14 | 1430 | 330 | -- | 26. | 85. | 23. | 39. | -- | -- | -- |
| 80-04-30 | 1400 | 330 | -- | 114. | 51. | 102. | 28. | -- | -- | -- |
| 80-06-27 | 1405 | 330 | -- | L10. | 85. | L10. | 58. | -- | -- | -- |
| 80-08-05 | 1428 | 330 | -- | L10. | 101. | L10. | 83. | -- | -- | -- |
| 80-09-03 | 1443 | 330 | -- | L10. | 111. | L10. | 68. | -- | -- | -- |
| 80-09-25 | 1230 | 330 | -- | L10. | 101. | L10. | 80. | -- | -- | -- |
| 80-10-14 | 1420 | 330 | -- | L10. | 110. | L10. | 95. | -- | -- | -- |
| 80-11-25 | 1525 | 330 | -- | L10. | 107. | L10. | 95. | -- | -- | -- |
| 80-12-01 | 1538 | 330 | -- | L10. | 138. | L10. | 84. | -- | -- | -- |
| 80-12-18 | 1352 | 330 | -- | L10. | 103. | L10. | 93. | -- | -- | -- |
| 81-01-13 | 1451 | 330 | -- | L10. | 88. | L10. | 77. | -- | -- | -- |
| 81-02-09 | 1614 | 330 | -- | L10. | 91. | L10. | 81. | -- | -- | -- |
| 81-02-13 | 1122 | 330 | -- | L10. | 97. | L10. | 74. | -- | -- | -- |
| 81-03-05 | 1351 | 330 | -- | L10. | 92. | L10. | 58. | -- | -- | -- |
| 81-04-06 | 1433 | 330 | -- | L10. | 86. | L10. | 61. | -- | -- | -- |
| 81-04-07 | 1300 | 330 | -- | L10. | 94. | L10. | 59. | -- | -- | -- |
| 81-05-22 | 1340 | 330 | -- | 118. | 38. | 105. | 13. | -- | -- | -- |
| 81-07-14 | 1417 | 330 | -- | L10. | 60. | L10. | 36. | -- | -- | -- |
| 81-08-20 | 1545 | 330 | -- | L10. | 85. | L10. | 63. | L.05 | L.001 | -- |
| 81-10-09 | 1253 | 330 | -- | L10. | 63. | L10. | 41. | L.05 | L.001 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08HN0022 LAT. 49D 0M 29S LONG. 118D 18M 11S
KETTLE RIVER AT GILPIN FOOTBRIDGE. 11KM ESE OF GRAND FORKS. BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1307 | 330 | .0008 | .0002 | -- | -- | -- | -- | -- | -- |
| 79-12-14 | 0900 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-01-08 | 1118 | 330 | .0009 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-04-14 | 1430 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-04-30 | 1400 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-27 | 1405 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-08-05 | 1428 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-09-03 | 1443 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-25 | 1230 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-10-14 | 1420 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-11-25 | 1525 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-12-01 | 1538 | 330 | .0006 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-12-18 | 1352 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-01-13 | 1451 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-09 | 1614 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-02-13 | 1122 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-03-05 | 1351 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-06 | 1433 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-07 | 1300 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-22 | 1340 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-07-14 | 1417 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-20 | 1545 | 330 | .0004 | .0001 | -- | .020 | -- | .003 | .06 | -- |
| 81-10-09 | 1253 | 330 | .0004 | L.0001 | -- | .010 | -- | .006 | .17 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-10-10 | 1307 | 330 | -- | -- | 6.40 | -- | -- | -- |
| 79-12-14 | 0900 | 330 | -- | -- | 6.80 | -- | -- | -- |
| 80-01-08 | 1118 | 330 | -- | -- | 6.09 | -- | -- | -- |
| 80-04-14 | 1430 | 330 | -- | -- | 58.60 | -- | -- | -- |
| 80-04-30 | 1400 | 330 | -- | -- | 665.00 | -- | -- | -- |
| 80-05-07 | 1200 | 330 | -- | -- | -- | -- | 685.00 | -- |
| 80-06-27 | 1405 | 330 | -- | -- | 107.00 | -- | -- | -- |
| 80-08-05 | 1428 | 330 | -- | -- | 28.30 | -- | -- | -- |
| 80-09-03 | 1443 | 330 | -- | -- | 17.80 | -- | -- | -- |
| 80-09-25 | 1230 | 330 | -- | -- | 19.70 | -- | -- | -- |
| 80-10-14 | 1420 | 330 | -- | -- | 15.10 | -- | -- | -- |
| 80-11-25 | 1525 | 330 | -- | -- | 12.50 | -- | -- | -- |
| 80-11-29 | 1200 | 330 | -- | -- | -- | -- | -- | 4.25 |
| 80-12-01 | 1538 | 330 | -- | -- | 15.80 | -- | -- | -- |
| 80-12-18 | 1352 | 330 | -- | -- | 17.70 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 79.10 | -- | -- |
| 81-01-13 | 1451 | 330 | -- | -- | 21.90 | -- | -- | -- |
| 81-01-17 | 1200 | 330 | -- | -- | -- | -- | -- | 15.30 |
| 81-02-09 | 1614 | 330 | -- | -- | 18.70 | -- | -- | -- |
| 81-02-13 | 1122 | 330 | -- | -- | 22.10 | -- | -- | -- |
| 81-03-05 | 1351 | 330 | -- | -- | 41.90 | -- | -- | -- |
| 81-04-06 | 1433 | 330 | -- | -- | 71.40 | -- | -- | -- |
| 81-04-07 | 1300 | 330 | -- | -- | 69.90 | -- | -- | -- |
| 81-05-22 | 1340 | 330 | -- | -- | 569.00 | -- | -- | -- |
| 81-05-27 | 1200 | 330 | -- | -- | -- | -- | 617.00 | -- |
| 81-07-14 | 1417 | 330 | -- | -- | 171.00 | -- | -- | -- |
| 81-08-20 | 1545 | 330 | L.0005 | .001 | 42.50 | -- | -- | -- |
| 81-10-09 | 1253 | 330 | L.0005 | L.001 | 67.70 | -- | -- | -- |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 105.00 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08CC08NP0003 LAT 49D 0M 15S LONG 114D 28M 45S
FLATHEAD RIVER, 0.3 KM ABOVE U.S.A. - CANADA BORDER CROSSING, BRITISH COLUMBIA.
WATER SURVEY SITE 08NP001. (INTERPRETIVE REPORT STATION 3)

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT USIE/CM | 02041L SPECIFIC CONDUCT USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 1530 | 330 | -- | 16.0 | 20.4 | -- | 8.5 | -- | 238. | 1.30 |
| 79-09-07 | 0915 | 330 | -- | 10.0 | 21.7 | -- | 8.3 | -- | 269. | .31 |
| 79-11-14 | 0915 | 330 | -- | .0 | 18.4 | -- | 8.3 | -- | 279. | .50 |
| 80-01-18 | 1250 | 330 | -7.0 | .0 | 19.4 | -- | 8.2 | -- | 271. | .48 |
| 80-03-07 | 1315 | 330 | -1.0 | .0 | 19.9 | -- | 8.4 | -- | 273. | .58 |
| 80-04-24 | 1145 | 330 | 10.5 | 3.5 | 22.0 | -- | 7.6 | -- | 200. | 33.00 |
| 80-05-21 | 1215 | 330 | 22.5 | 7.5 | 21.0 | -- | 8.0 | -- | 158. | 9.60 |
| 80-06-17 | 1000 | 330 | 18.5 | 8.5 | 21.1 | -- | 8.1 | -- | 203. | .83 |
| 80-07-24 | 1505 | 330 | 22.0 | 16.0 | 24.1 | -- | 8.3 | -- | 260. | .46 |
| | 1507 | 330 | 22.0 | 16.0 | 23.4 | -- | 8.3 | -- | 259. | .32 |
| 80-09-10 | 1100 | 330 | 18.5 | 10.5 | 21.6 | -- | 8.3 | -- | 259. | .33 |
| 80-11-06 | 1110 | 330 | 8.0 | 5.5 | 22.2 | -- | 8.3 | -- | 265. | 1.00 |
| 81-05-07 | 0940 | 330 | 5.0 | 4.0 | 19.8 | -- | 8.0 | -- | 220. | 9.70 |
| 81-05-21 | 1205 | 330 | 13.0 | 5.0 | 23.8 | -- | 7.9 | -- | 179. | 40.00 |
| 81-06-01 | 1043 | 330 | -- | 1.0 | 19.7 | -- | 8.1 | -- | 229. | .39 |
| 81-06-04 | 1125 | 330 | 13.0 | 7.0 | 20.4 | -- | 8.1 | -- | 162. | 15.00 |
| 81-07-03 | 1600 | 330 | 28.5 | 13.0 | 19.6 | -- | 8.3 | -- | 199. | 3.00 |
| 81-08-13 | 1100 | 330 | 24.0 | 14.0 | 21.4 | -- | 8.5 | -- | 249. | .32 |
| 81-10-16 | 1730 | 330 | 7.0 | 5.0 | 18.8 | -- | 8.2 | -- | 266. | .40 |
| 81-11-30 | 1530 | 330 | .0 | .0 | 20.5 | -- | 8.2 | -- | 254. | .16 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 1530 | 330 | L5. | .8 | 124.0 | 131.0 | 38.3 | 8.6 | 2 | .7 |
| 79-09-07 | 0915 | 330 | L5. | .0 | 141.0 | 143.0 | 43.3 | 8.5 | .3 | 9 |
| 79-11-14 | 0915 | 330 | L5. | .0 | 149.0 | 157.0 | 47.0 | 9.6 | L.2 | 8 |
| 80-01-18 | 1250 | 330 | L5. | .0 | 143.0 | 147.0 | 44.3 | 8.8 | .3 | .9 |
| 80-03-07 | 1315 | 330 | L5. | 1.0 | 144.0 | 150.0 | 43.7 | 9.9 | L.2 | 1.0 |
| 80-04-24 | 1145 | 330 | 60. | .0 | 101.0 | 106.0 | 33.6 | 5.4 | 4 | .9 |
| 80-05-21 | 1215 | 330 | 20. | .0 | 82.4 | 84.7 | 27.3 | 4.0 | .4 | 1.1 |
| 80-06-17 | 1000 | 330 | 5. | .0 | 104.0 | 108.0 | 33.4 | 6.0 | .2 | .4 |
| 80-07-24 | 1505 | 330 | 15. | 1.0 | 135.0 | 136.0 | 43.9 | 6.9 | 2 | .8 |
| | 1507 | 330 | 10. | .9 | 135.0 | 138.0 | 41.9 | 8.1 | .2 | .8 |
| 80-09-10 | 1100 | 330 | 5. | .0 | 137.0 | 141.0 | 37.5 | 11.5 | .2 | .7 |
| 80-11-06 | 1110 | 330 | 10. | .0 | 132.0 | 139.0 | 41.7 | 8.5 | .3 | .8 |
| 81-05-07 | 0940 | 330 | 15. | .0 | 108.0 | 111.0 | 33.5 | 6.6 | 2 | .8 |
| 81-05-21 | 1205 | 330 | 10. | .0 | 87.3 | 88.4 | 26.6 | 5.3 | 3 | 5 |
| 81-06-01 | 1043 | 330 | 10. | .0 | 117.0 | 122.0 | 36.5 | 7.5 | 4 | 9 |
| 81-06-04 | 1125 | 330 | 10. | .0 | 81.3 | 82.0 | 25.6 | 4.4 | 4 | 7 |
| 81-07-03 | 1600 | 330 | 10. | .0 | 99.2 | 103.0 | 31.3 | 6.0 | L.2 | 6 |
| 81-08-13 | 1100 | 330 | 10. | 2.1 | 133.0 | 133.0 | 40.1 | 8.0 | .3 | 9 |
| 81-10-16 | 1730 | 330 | 5. | .0 | 137.0 | 143.0 | 40.9 | 9.9 | L.2 | 9 |
| 81-11-30 | 1530 | 330 | L5. | .0 | 143.0 | 145.0 | 42.4 | 9.5 | .2 | 9 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 1530 | 330 | .2 | .065 | 4.6 | 5.2 | L.002 | -- | -- | -- |
| 79-09-07 | 0915 | 330 | .2 | .096 | 4.8 | 5.2 | L.002 | -- | -- | -- |
| 79-11-14 | 0915 | 330 | .3 | .095 | 4.7 | 8.0 | 007 | -- | -- | -- |
| 80-01-18 | 1250 | 330 | .3 | .140 | 4.7 | 6.8 | 016 | -- | -- | -- |
| 80-03-07 | 1315 | 330 | .3 | .100 | 4.6 | 6.7 | .194 | -- | -- | -- |
| 80-04-24 | 1145 | 330 | .3 | .080 | 4.5 | 4.9 | 055 | -- | -- | -- |
| 80-05-21 | 1215 | 330 | .2 | .070 | 4.0 | 4.2 | L.002 | -- | -- | -- |
| 80-06-17 | 1000 | 330 | L.2 | .072 | 4.4 | 4.0 | L.002 | -- | -- | -- |
| 80-07-24 | 1505 | 330 | .2 | .093 | 4.7 | 4.1 | 026 | -- | -- | -- |
| | 1507 | 330 | .2 | .092 | 4.7 | 3.8 | L.002 | -- | -- | -- |
| 80-09-10 | 1100 | 330 | .3 | .096 | 4.7 | 4.7 | 002 | -- | -- | -- |
| 80-11-06 | 1110 | 330 | .5 | .080 | 4.9 | 6.2 | L.002 | -- | -- | -- |
| 81-05-07 | 0940 | 330 | .3 | .070 | 4.8 | 3.1 | .024 | -- | -- | -- |
| 81-05-21 | 1205 | 330 | .3 | .070 | 4.1 | 2.5 | .019 | -- | -- | -- |
| 81-06-01 | 1043 | 330 | .4 | .080 | 4.5 | 6.0 | .008 | -- | -- | -- |
| 81-06-04 | 1125 | 330 | .3 | .070 | 4.1 | 2.4 | .007 | -- | -- | -- |
| 81-07-03 | 1600 | 330 | .2 | .060 | 4.3 | 3.0 | L.002 | -- | -- | -- |
| 81-08-13 | 1100 | 330 | .3 | .090 | 5.2 | 3.8 | L.002 | -- | -- | -- |
| 81-10-16 | 1730 | 330 | .3 | .090 | 4.6 | 4.5 | .005 | .076 | -- | -- |
| 81-11-30 | 1530 | 330 | .3 | 1.100 | 4.6 | 5.1 | .017 | .106 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NP0003 LAT. 49D 0M 15S LONG. 114D 28M 45S
FLATHEAD RIVER, 0.3 KM ABOVE U.S.A. - CANADA BORDER CROSSING, BRITISH COLUMBIA.
WATER SURVEY SITE 08NP001. (INTERPRETIVE REPORT STATION 3)

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 1530 | 330 | -- | L10. | 140. | L10. | 126. | -- | -- | -- |
| 79-09-07 | 0915 | 330 | -- | L10. | 161. | L10. | 136. | -- | -- | -- |
| 79-11-14 | 0915 | 330 | -- | L10. | 151. | L10. | 139. | -- | -- | -- |
| 80-01-18 | 1250 | 330 | -- | L10. | 162. | L10. | 145. | -- | -- | -- |
| 80-03-07 | 1315 | 330 | -- | L10. | 153. | L10. | 133. | -- | -- | -- |
| 80-04-24 | 1145 | 330 | -- | 160. | 117. | 143. | 62. | -- | -- | -- |
| 80-05-21 | 1215 | 330 | -- | 39. | 100. | 32. | 75. | -- | -- | -- |
| 80-06-17 | 1000 | 330 | -- | L10. | 120. | L10. | 91. | -- | -- | -- |
| 80-07-24 | 1505 | 330 | -- | L10. | 140. | L10. | 130 | -- | -- | -- |
| | 1507 | 330 | -- | L10. | 150. | L10. | 130. | -- | -- | -- |
| 80-09-10 | 1100 | 330 | -- | L10 | 150. | L10. | 114. | -- | -- | -- |
| 80-11-06 | 1110 | 330 | -- | L10. | 140. | L10. | 130. | -- | -- | -- |
| 81-05-07 | 0940 | 330 | -- | 33. | 122 | 77. | 102. | -- | -- | -- |
| 81-05-21 | 1205 | 330 | -- | 133. | 104. | 122. | 84. | -- | -- | -- |
| 81-06-01 | 1043 | 330 | -- | L10. | 129. | L10. | 105. | -- | -- | -- |
| 81-06-04 | 1125 | 330 | -- | 46. | 103. | 42. | 93 | -- | -- | -- |
| 81-07-03 | 1600 | 330 | -- | L10. | 102. | L10. | 56. | -- | -- | -- |
| 81-08-13 | 1100 | 330 | -- | L10. | 180. | L10. | 120. | -- | -- | -- |
| 81-10-16 | 1730 | 330 | -- | L10. | 160. | L10. | 130. | L.05 | L.001 | -- |
| 81-11-30 | 1530 | 330 | -- | L10. | 144 | L10. | 96 | L.05 | L.001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 1530 | 330 | .0001 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-09-07 | 0915 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 79-11-14 | 0915 | 330 | .0002 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-01-18 | 1250 | 330 | .0003 | .0003 | -- | -- | -- | -- | -- | -- |
| 80-03-07 | 1315 | 330 | .0002 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-04-24 | 1145 | 330 | .0011 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-05-21 | 1215 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-06-17 | 1000 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-07-24 | 1505 | 330 | .0002 | .0002 | -- | -- | -- | -- | -- | -- |
| | 1507 | 330 | .0003 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-09-10 | 1100 | 330 | .0003 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-11-06 | 1110 | 330 | .0002 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-05-07 | 0940 | 330 | .0002 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-05-21 | 1205 | 330 | .0005 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-06-01 | 1043 | 330 | .0002 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-06-04 | 1125 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-07-03 | 1600 | 330 | .0002 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-08-13 | 1100 | 330 | .0003 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-10-16 | 1730 | 330 | .0004 | .0002 | -- | L.010 | -- | L.001 | -- | .011 |
| 81-11-30 | 1530 | 330 | .0003 | .0001 | -- | L.010 | -- | L.001 | -- | .015 |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NP0003 LAT. 49D 0M 15S LONG. 114D 28M 45S
FLATHEAD RIVER, 0.3 KM ABOVE U.S.A. - CANADA BORDER CROSSING, BRITISH COLUMBIA.
WATER SURVEY SITE 08NP001. (INTERPRETIVE REPORT STATION 3)

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 1530 | 330 | -- | -- | 14.20 | -- | -- | -- |
| 79-09-07 | 0915 | 330 | -- | -- | 6.29 | -- | -- | -- |
| 79-11-14 | 0915 | 330 | -- | -- | 3.96 | -- | -- | -- |
| 80-01-18 | 1250 | 330 | -- | -- | 3.85 | -- | -- | -- |
| 80-01-28 | 1200 | 330 | -- | -- | -- | -- | -- | 2.15 |
| 80-03-07 | 1315 | 330 | -- | -- | 3.68 | -- | -- | -- |
| 80-04-24 | 1145 | 330 | -- | -- | 86.10 | -- | -- | -- |
| 80-04-30 | 1200 | 330 | -- | -- | -- | -- | 155.00 | -- |
| 80-05-21 | 1215 | 330 | -- | -- | 103.00 | -- | -- | -- |
| 80-06-17 | 1000 | 330 | -- | -- | 45.70 | -- | -- | -- |
| 80-07-24 | 1505 | 330 | -- | -- | 11.90 | -- | -- | -- |
| | 1507 | 330 | -- | -- | 11.90 | -- | -- | -- |
| 80-09-10 | 1100 | 330 | -- | -- | 8.91 | -- | -- | -- |
| 80-11-06 | 1110 | 330 | -- | -- | 8.34 | -- | -- | -- |
| 80-12-31 | 1200 | 330 | -- | -- | -- | 22.50 | -- | -- |
| 81-05-07 | 0940 | 330 | -- | - | 61.20 | -- | -- | -- |
| 81-05-21 | 1205 | 330 | -- | -- | 146.00 | -- | -- | -- |
| 81-05-26 | 1200 | 330 | -- | -- | -- | -- | 181.00 | -- |
| 81-06-04 | 1125 | 330 | -- | -- | 103.00 | -- | -- | -- |
| 81-07-03 | 1600 | 330 | -- | -- | 51.30 | -- | -- | -- |
| 81-08-13 | 1100 | 330 | -- | -- | 11.90 | -- | -- | -- |
| 81-10-16 | 1730 | 330 | L.0005 | L.001 | 5.99 | -- | -- | -- |
| 81-11-30 | 1530 | 330 | L.0005 | L.001 | 5.58 | -- | -- | -- |
| 81-12-16 | 1200 | 330 | -- | -- | -- | -- | -- | 3.26 |
| 81-12-31 | 1200 | 330 | -- | -- | -- | 26.80 | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 00BC08NP0006
SAGE CREEK, 0.5 MILES NORTH OF PROCTOR LAKE, ROAD BRIDGE. LAT. 49D 4M 13S LONG. 114D 27M 55S
(INTERPRETIVE REPORT STATION 4) BRITISH COLUMBIA.

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 97060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 0745 | 330 | 30.0 | 10.0 | 20.3 | -- | 8.0 | -- | 117. | 1.90 |
| 79-09-07 | 0730 | 330 | -- | 8.0 | 21.5 | -- | 8.0 | -- | 159. | .26 |
| 79-11-14 | 1750 | 330 | -- | .0 | 18.3 | -- | 7.9 | -- | 178. | 1.20 |
| 80-04-21 | 1250 | 330 | 10.5 | 4.0 | 21.8 | -- | 7.3 | -- | 107. | 5.70 |
| 80-05-07 | 1715 | 330 | 8.5 | 5.0 | 20.2 | -- | 7.7 | -- | 76. | 2.50 |
| 80-06-17 | 0820 | 330 | 16.0 | 7.0 | 21.1 | -- | 7.6 | -- | 79. | .76 |
| 80-07-24 | 0815 | 330 | 15.0 | 11.5 | 23.8 | -- | 7.9 | -- | 136. | .33 |
| | 0818 | 330 | 15.0 | 11.5 | 23.6 | -- | 7.9 | -- | 136. | .24 |
| 80-09-10 | 1600 | 330 | 22.0 | 12.5 | 21.7 | -- | 7.9 | -- | 154. | .27 |
| 80-11-20 | 1445 | 330 | 2.5 | 1.0 | 19.8 | -- | 7.9 | -- | 144. | .39 |
| 81-01-15 | 0930 | 330 | -8.5 | -- | 19.5 | -- | 7.5 | -- | 145. | .25 |
| 81-04-07 | 1215 | 330 | 3.0 | 3.0 | 18.7 | -- | 8.1 | -- | 174. | .23 |
| 81-05-21 | 1745 | 330 | 13.0 | 5.0 | 23.9 | -- | 7.7 | -- | 82. | 7.00 |
| 81-07-03 | 0810 | 330 | 12.5 | 6.0 | 19.3 | -- | 7.7 | -- | 82. | 1.50 |
| 81-08-13 | 1650 | 330 | 28.0 | 18.0 | 21.4 | -- | 8.2 | -- | 144. | .26 |
| 81-10-28 | 1000 | 330 | 2.0 | 3.5 | 21.8 | -- | 7.7 | -- | 178. | .12 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 0745 | 330 | L5. | .0 | 50.3 | 59.0 | 16.3 | 4.4 | .3 | 1.4 |
| 79-09-07 | 0730 | 330 | L5. | .0 | 68.2 | 77.7 | 21.5 | 5.8 | .4 | 1.8 |
| 79-11-14 | 1750 | 330 | L5. | .0 | 72.2 | 88.5 | 25.5 | 6.0 | .3 | 2.1 |
| 80-04-21 | 1250 | 330 | 25. | .0 | 43.4 | 52.7 | 15.9 | 3.2 | .4 | 1.4 |
| 80-05-07 | 1715 | 330 | 20. | .0 | 31.8 | 35.9 | 12.0 | 1.4 | .6 | .9 |
| 80-06-17 | 0820 | 330 | 5. | .0 | 34.6 | 38.8 | 12.7 | 1.7 | .2 | .4 |
| 80-07-24 | 0815 | 330 | 15. | .0 | 56.5 | 65.4 | 18.4 | 4.7 | .5 | 1.6 |
| | 0818 | 330 | 10. | .0 | 57.2 | 65.2 | 19.2 | 4.2 | .4 | 1.6 |
| 80-09-10 | 1600 | 330 | 5. | .0 | 62.1 | 73.4 | 19.1 | 6.2 | .4 | 1.7 |
| 80-11-20 | 1445 | 330 | 10. | .0 | 56.9 | 65.1 | 17.5 | 5.2 | .3 | 1.7 |
| 81-01-15 | 0930 | 330 | 5. | .0 | 64.5 | 73.1 | 20.3 | 5.4 | .2 | 1.7 |
| 81-04-07 | 1215 | 330 | 10 | .0 | 72.9 | 83.4 | 23.0 | 6.3 | .3 | 2.0 |
| 81-05-21 | 1745 | 330 | 15. | .0 | 35.4 | 38.1 | 10.6 | 2.8 | .4 | .7 |
| 81-07-03 | 0810 | 330 | 10. | .0 | 37.4 | 41.3 | 11.5 | 3.1 | .3 | .8 |
| 81-08-13 | 1650 | 330 | 5. | .0 | 58.9 | 65.5 | 16.5 | 5.9 | .3 | 1.5 |
| 81-10-28 | 1000 | 330 | 5. | .0 | 72.3 | 86.9 | 23.6 | 6.8 | .3 | 2.0 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 0745 | 330 | .3 | L.050 | 4.7 | 8.5 | .005 | -- | -- | -- |
| 79-09-07 | 0730 | 330 | .6 | .053 | 5.2 | 13.2 | .024 | -- | -- | -- |
| 79-11-14 | 1750 | 330 | 1.0 | .066 | 5.2 | 18.0 | .060 | -- | -- | -- |
| 80-04-21 | 1250 | 330 | .7 | .210 | 4.7 | 8.9 | 157 | -- | -- | -- |
| 80-05-07 | 1715 | 330 | .3 | L.050 | 4.2 | 4.1 | .037 | -- | -- | -- |
| 80-06-17 | 0820 | 330 | L.2 | L.050 | 4.2 | 4.1 | .002 | -- | -- | -- |
| 80-07-24 | 0815 | 330 | .3 | L.050 | 4.9 | 9.1 | L.002 | -- | -- | -- |
| | 0818 | 330 | .3 | L.050 | 4.9 | 9.7 | .048 | -- | -- | -- |
| 80-09-10 | 1600 | 330 | .5 | 046 | 4.8 | 10.0 | .006 | -- | -- | -- |
| 80-11-20 | 1445 | 330 | .6 | .040 | 4.7 | 11.5 | .046 | -- | -- | -- |
| 81-01-15 | 0930 | 330 | .7 | L.050 | 5.1 | 10.6 | .061 | -- | -- | -- |
| 81-04-07 | 1215 | 330 | .7 | L.050 | 5.3 | 11.9 | .034 | -- | -- | -- |
| 81-05-21 | 1745 | 330 | .3 | .040 | 4.7 | 3.3 | .040 | -- | -- | -- |
| 81-07-03 | 0810 | 330 | .2 | .030 | 4.1 | 4.0 | .006 | -- | -- | -- |
| 81-08-13 | 1650 | 330 | .4 | .030 | 7.4 | 8.5 | .008 | -- | -- | -- |
| 81-10-28 | 1000 | 330 | .8 | .820 | 5.2 | 14.1 | .110 | .165 | -- | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08NP0006 LAT. 49D 4M 13S LONG. 114D 27M 55S
SAGE CREEK. 0.5 MILES NORTH OF PROCTOR LAKE . ROAD BRIDGE. BRITISH COLUMBIA.
(INTERPRETIVE REPORT STATION 4)

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10551L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 0745 | 330 | -- | L10. | 72. | L10. | 60. | -- | -- | -- |
| 79-09-07 | 0730 | 330 | -- | L10. | 98. | L10. | 78. | -- | -- | -- |
| 79-11-14 | 1750 | 330 | -- | L10. | 105. | L10 | 96. | -- | -- | -- |
| 80-04-21 | 1250 | 330 | -- | 15. | 85. | 14. | 50. | -- | -- | -- |
| 80-05-07 | 1715 | 330 | -- | 10. | 95. | L10. | 32. | -- | -- | -- |
| 80-06-17 | 0820 | 330 | -- | L10. | 40. | L10 | 35. | -- | -- | -- |
| 80-07-24 | 0815 | 330 | -- | L10. | 89. | L10. | 78. | -- | -- | -- |
| | 0818 | 330 | -- | L10. | 87. | L10. | 72. | -- | -- | -- |
| 80-09-10 | 1600 | 330 | -- | L10. | 87. | L10. | 67. | -- | -- | -- |
| 80-11-20 | 1445 | 330 | -- | L10. | 87. | L10. | 66. | -- | -- | -- |
| 81-01-15 | 0930 | 330 | -- | L10. | 90. | L10. | L10. | -- | -- | -- |
| 81-04-07 | 1215 | 330 | -- | L10. | 73. | L10. | 68. | -- | -- | -- |
| 81-05-21 | 1745 | 330 | -- | 26. | 61. | 22. | 44. | -- | -- | -- |
| 81-07-03 | 0810 | 330 | -- | L10. | 46. | L10. | 23. | -- | -- | -- |
| 81-08-13 | 1650 | 330 | -- | L10. | 95. | L10. | 65. | -- | -- | -- |
| 81-10-28 | 1000 | 330 | -- | L10. | 90. | L10. | 65. | L.05 | L.001 | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE. FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-19 | 0745 | 330 | .0001 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-09-07 | 0730 | 330 | .0007 | L.0001 | -- | -- | -- | -- | -- | -- |
| 79-11-14 | 1750 | 330 | .0002 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-04-21 | 1250 | 330 | .0005 | .0001 | -- | -- | -- | -- | -- | -- |
| 80-05-07 | 1715 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-06-17 | 0820 | 330 | .0004 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-07-24 | 0815 | 330 | .0002 | .0001 | -- | -- | -- | -- | -- | -- |
| | 0818 | 330 | .0002 | 0001 | -- | -- | -- | -- | -- | -- |
| 80-09-10 | 1600 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 80-11-20 | 1445 | 330 | .0002 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-01-15 | 0930 | 330 | .0002 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-04-07 | 1215 | 330 | .0002 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-05-21 | 1745 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-07-03 | 0810 | 330 | .0003 | L.0001 | -- | -- | -- | -- | -- | -- |
| 81-08-13 | 1650 | 330 | .0004 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-10-28 | 1000 | 330 | .0003 | L.0001 | -- | .010 | -- | .001 | -- | 011 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 97167S DISCHARGE DAILY MEAN M3/S | 97170S ANNUAL MEAN DISCHARGE M3/S | 97172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 97174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 81-10-28 | 1000 | 330 | L.0005 | .001 | -- | -- | -- | -- |

FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08PA0001 LAT. 49D 1M 14S LONG. 121D 3M 38S
SKAGIT RIVER 2 KM NORTH OF BOUNDARY OBELISK LOGGING HWY BRIDGE BRITISH COLUMBIA

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 07060S TEMP. AIR DEG. C | 02061S TEMP. WATER DEG. C. | 02061L TEMP. WATER DEG. C. | 10301S PH PH UNITS | 10301L PH PH UNITS | 02041S SPECIFIC CONDUCT. USIE/CM | 02041L SPECIFIC CONDUCT. USIE/CM | 02073L TURBIDITY JTU |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1630 | 330 | -- | 15.0 | 20.6 | -- | 7.8 | -- | 101. | 1.00 |
| 80-05-01 | 1300 | 330 | 25.0 | 9.0 | 22.1 | -- | 7.6 | -- | 84. | 4.40 |
| 80-07-03 | 1558 | 330 | 15.5 | 10.0 | 21.1 | -- | 7.6 | -- | 94. | 2.30 |
| 80-10-23 | 1655 | 330 | 6.0 | 6.0 | 12.8 | -- | 7.9 | -- | 127. | .25 |
| 81-01-17 | 1410 | 330 | 1.0 | 2.5 | 19.5 | -- | 7.0 | -- | 117. | .20 |
| 81-02-11 | 1624 | 330 | -1.5 | 1.0 | 20.5 | -- | 7.5 | -- | 125. | .15 |
| 81-05-01 | 1355 | 330 | 15.0 | 6.0 | 20.5 | -- | 7.5 | -- | 76. | 36.00 |
| 81-07-21 | 1255 | 330 | 17.0 | 9.0 | 19.0 | -- | 7.8 | -- | 97. | 1.00 |
| 81-10-13 | 1340 | 330 | 7.5 | 16.0 | 20.4 | -- | 7.6 | -- | 117. | .20 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 02011L COLOUR APPARENT REL. UNITS | 10151L ALKALINITY PHENOL PHTHALEIN CACO3 MG/L | 10101L ALKALINITY TOTAL CACO3 MG/L | 10603L HARDNESS TOTAL CACO3 MG/L | 20101L CALCIUM DISSOLVED CA MG/L | 12101L MAGNESIUM DISSOLVED (CALCD.) MG MG/L | 19103L POTASSIUM DISSOLVED K MG/L | 11103L SODIUM DISSOLVED NA MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1630 | 330 | L5 | .0 | 40.8 | 49.8 | 16.8 | 1.9 | .4 | 1.4 |
| 80-05-01 | 1300 | 330 | 20 | 0 | 34.6 | 35.9 | 14.7 | .8 | .3 | 1.2 |
| 80-07-03 | 1558 | 330 | 5 | .0 | 37.3 | 43.5 | 14.7 | 1.6 | .3 | 1.4 |
| 80-10-23 | 1655 | 330 | 5 | .0 | 50.4 | 58.8 | 18.6 | 2.5 | .4 | 1.5 |
| 81-01-17 | 1410 | 330 | 5 | 0 | 46.6 | 56.9 | 18.3 | 2.7 | .4 | 1.6 |
| 81-02-11 | 1624 | 330 | 5 | 0 | 50.8 | 62.5 | 19.3 | 3.5 | .4 | 1.7 |
| 81-05-01 | 1355 | 330 | 15 | 0 | 28.3 | 33.8 | 11.6 | 1.2 | .3 | 1.1 |
| 81-07-21 | 1255 | 330 | 5 | 0 | 37.8 | 45.3 | 14.5 | 2.2 | .2 | 1.3 |
| 81-10-13 | 1340 | 330 | 10 | 0 | 47.6 | 57.6 | 14.1 | 5.4 | .5 | 1.5 |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 17206L CHLORIDE DISSOLVED CL MG/L | 09106L FLUORIDE DISSOLVED F MG/L | 14105L SILICA REACTIVE SIO2 MG/L | 16306L SULPHATE DISSOLVED SO4 MG/L | 07110L NITROGEN DISSOLVED NO3 & NO2 N MG/L | 07651L NITROGEN DISSOLVED N MG/L | 06051L CARBON TOTAL INORGANIC C MG/L | 06001L CARBON TOTAL ORGANIC C MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1630 | 330 | .7 | .055 | 7.2 | 8.7 | .034 | -- | -- | -- |
| 80-05-01 | 1300 | 330 | .7 | L.050 | 6.8 | 6.8 | .082 | -- | -- | -- |
| 80-07-03 | 1558 | 330 | .7 | L.050 | 6.8 | 8.7 | .024 | -- | -- | -- |
| 80-10-23 | 1655 | 330 | .8 | .050 | 8.5 | 10.1 | .035 | -- | -- | -- |
| 81-01-17 | 1410 | 330 | .7 | .050 | 8.1 | 9.2 | .077 | -- | -- | -- |
| 81-02-11 | 1624 | 330 | .7 | .060 | 8.5 | 10.1 | .043 | -- | -- | -- |
| 81-05-01 | 1355 | 330 | .6 | .040 | 6.3 | 5.9 | .080 | -- | -- | -- |
| 81-07-21 | 1255 | 330 | .4 | .040 | 6.9 | 7.4 | .024 | -- | -- | -- |
| 81-10-13 | 1340 | 330 | .6 | .050 | 8.3 | 9.2 | .030 | 061 | -- | -- |

| DATE YMD/AMJ | TIME/ HEURE | SUB-ID/ SOUS-ID | 06606P CYANIDE CN MG/L | 10401L RESIDUE NONFILTR. MG/L | 10451L RESIDUE FILTERABLE MG/L | 10501L RESIDUE FIXED NONFILTR. MG/L | 10557L RESIDUE FIXED FILTERABLE MG/L | 80311P MERCURY EXTRBLE. HG UG/L | 29305P COPPER EXTRBLE. CU MG/L | 29306P COPPER EXTRBLE. CU MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1630 | 330 | -- | L10. | 62. | L10. | 58. | -- | -- | -- |
| 80-05-01 | 1300 | 330 | -- | 10. | 55. | L10. | 38. | -- | -- | -- |
| 80-07-03 | 1558 | 330 | -- | L10. | 66. | L10. | 37. | -- | -- | -- |
| 80-10-23 | 1655 | 330 | -- | L10. | 75. | L10. | 70. | -- | -- | -- |
| 81-01-17 | 1410 | 330 | -- | L10. | 118. | L10. | 86. | -- | -- | -- |
| 81-02-11 | 1624 | 330 | -- | L10. | 78. | L10. | 51. | -- | -- | -- |
| 81-05-01 | 1355 | 330 | -- | 114. | 49. | 98. | 39. | -- | -- | -- |
| 81-07-21 | 1255 | 330 | -- | L10. | 58. | L10. | 34. | -- | -- | -- |
| 81-10-13 | 1340 | 330 | -- | L10. | 100. | L10. | 67. | L.05 | L.001 | -- |

DETAILED WATER QUALITY DATA
1979 - 1981

STATION - 08BC08PA0001 LAT. 48D 1M 14S LONG. 121D 3M 38S
SKAGIT RIVER 2 KM NORTH OF BOUNDARY OBELISK. LOGGING HWY BRIDGE. BRITISH COLUMBIA

| DATE YR/MO/DA | TIME/ HEURE | SUB-ID/ SOUS-ID | 33304L ARSENIC EXTRBLE. AS MG/L | 34302L SELENIUM EXTRBLE. SE MG/L | 25304P MANGANESE EXTRBLE. MN MG/L | 25305P MANGANESE EXTRBLE. MN MG/L | 30304P ZINC EXTRBL. ZN MG/L | 30305P ZINC EXTRBLE. ZN MG/L | 26304P IRON EXTRBLE. FE MG/L | 26305P IRON EXTRBLE FE MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 79-07-17 | 1630 | 330 | .0004 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-05-01 | 1300 | 330 | .0013 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-07-03 | 1558 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 80-10-23 | 1655 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-01-17 | 1410 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-02-11 | 1624 | 330 | .0005 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-05-01 | 1355 | 330 | .0013 | .0001 | -- | -- | -- | -- | -- | -- |
| 81-07-21 | 1255 | 330 | .0006 | .0002 | -- | -- | -- | -- | -- | -- |
| 81-10-13 | 1340 | 330 | .0004 | .0003 | -- | L 010 | -- | L 001 | -- | 045 |

| DATE YR/MO/DA | TIME/ HEURE | SUB-ID/ SOUS-ID | 48302P CADMIUM EXTRBLE. CD MG/L | 82302P LEAD EXTRBLE. PB MG/L | 91167S DISCHARGE DAILY MEAN M3/S | 91170S ANNUAL MEAN DISCHARGE M3/S | 91172S MAXIMUM DAILY DISCHARGE FOR YEAR M3/S | 91174S MINIMUM DAILY DISCHARGE FOR YEAR M3/S |
|---|---|---|---|---|---|---|---|---|
| 81-10-13 | 1340 | 330 | L.0005 | L 001 | -- | -- | -- | -- |

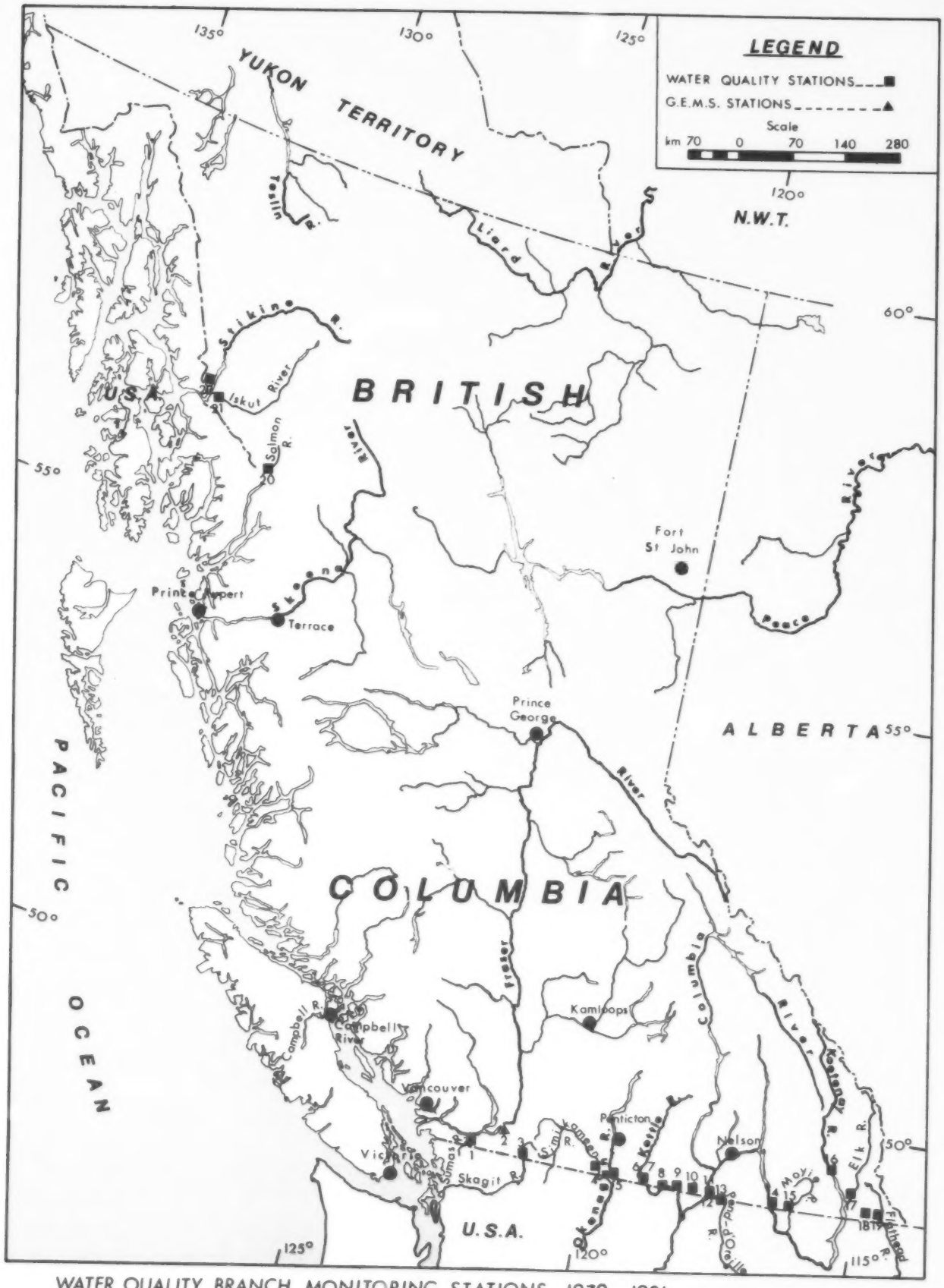
FOOTNOTE: L - LESS THAN DETECTION LIMIT G - GREATER THAN MEASUREMENT LIMIT
NOTEZ BIEN: L - PLUS PETIT QUE LA LIMITE DE DETECTION G - PLUS GRAND QUE LA LIMITE MESURE

# Alphabetical Station Index

## WATER QUALITY STATIONS : ALPHABETICAL:INDEX

| Location Description | Station Number | Latitude o ' " | Longitude o ' " | Page | Map No. |
|---|---|---|---|---|---|
| BIG SHEEP CREEK AT HIGHWAY BRIDGE | 00BC08NE0010 | 49:00:55 | 117:56:39 | 13 | 10 |
| BOUNDARY CREEK AT MIDWAY | 00BC08NN0010 | 49:00:06 | 118:45:38 | 38 | 7 |
| COLUMBIA RIVER AT WANETA | 00BC08NE0001 | 49:01:39 | 117:36:11 | 11 | 11 |
| ELK RIVER AT PHILLIP'S BRIDGE | 00BC08NK0002 | 49:12:55 | 115:06:33 | 31 | 17 |
| FLATHEAD RIVER AT INTERNATIONAL BOUNDARY | 00BC08NP0003 | 49:00:15 | 114:28:45 | 49 | 19 |
| FRASER RIVER AT HOPE #GEMS# | 00BC08MF0001 | 49:23:12 | 121:26:58 | 5 | 2 |
| ISKUT RIVER BELOW JOHNSON RIVER | 00BC08CG0001 | 56:44:20 | 131:40:23 | 4 | 21 |
| KETTLE RIVER AT CARSON | 00BC08NN0021 | 49:00:00 | 118:29:48 | 43 | 8 |
| KETTLE RIVER AT GILPIN | 00BC08NN0022 | 49:00:29 | 118:18:11 | 46 | 9 |
| KETTLE RIVER AT MIDWAY | 00BC08NN0011 | 49:00:16 | 118:46:28 | 40 | 6 |
| KOOTENAY RIVER AT NICK'S ISL. | 00BC08NH0005 | 49:07:00 | 116:34:45 | 25 | 14 |
| KOOTENAY RIVER AT WARDNER | 00BC08NH0002 | 49:25:17 | 115:25:10 | 19 | 16 |
| MOYIE RIVER AT KINGSGATE | 00BC08NH0010 | 49:00:16 | 116:10:46 | 28 | 15 |
| OKANAGAN RIVER AT OLIVER | 00BC08NM0001 | 49:07:04 | 119:34:04 | 36 | 5 |
| PEND-D'OREILLE RIVER BELOW INTERNATIONAL BOUNDARY | 00BC08NE0020 | 49:01:23 | 117:22:09 | 15 | 13 |
| PEND-D'OREILLE RIVER AT WANETA | 00BC08NE0029 | 49:00:11 | 117:37:00 | 17 | 12 |
| SAGE CREEK AT ROAD BRIDGE | 00BC08NP0006 | 49:04:13 | 114:27:55 | 52 | 18 |
| SALMON RIVER NEAR HYDER, ALASKA | 00AK08DC0001 | 56:01:18 | 130:04:17 | 1 | 20 |
| SIMILKAMEEN RIVER NEAR U.S. BOUNDARY | 00BC08NL0005 | 49:04:45 | 119:42:33 | 33 | 4 |
| SKAGIT RIVER 2KM NORTH OF BOUNDARY OBELISK | 00BC08PA0001 | 49:01:14 | 121:03:38 | 54 | 3 |
| STIKINE RIVER ABOVE CHOQUETTE RIVER | 00BC08CF0002 | 56:49:45 | 131:45:50 | 3 | 22 |
| SUMAS RIVER AT HUNTINGTON | 00BC08MH0027 | 49:00:10 | 122:13:50 | 8 | 1 |

# Station Map Location




WATER QUALITY BRANCH MONITORING STATIONS 1979–1981
STATIONS DE SURVEILLANCE DE LA DIRECTION DE LA QUALITÉ DES EAUX 1979-1981